

LIFE

SUCCESS IS RUINING OUR DOGS

DR. TELLER REFUTES 9,000 SCIENTISTS
WHY NUCLEAR BOMB TESTS MUST GO ON



F.D.R., AS ACTED
BY RALPH BELLAMY

FEBRUARY 10, 1958 **25** CENTS

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Inside-rocket view

13

The most intimate view yet of a rocket-launching is seen as result of Army's success with Jupiter C satellite project.



JUPITER C CREWMAN

What made Charlie kill? 20

After a berserk Nebraska boy has killed 11, the people who knew him try to answer the question, why did Charlie do it?



CHARLIE STARKWEATHER

The dog's downfall

77

Too hairy, too timid, too neurotic—our dogs are being ruined by man's mercenary, mass-production breeding.



MAN DISTORTING DOG

Teller: Don't stop tests 64

Is nuclear fallout a menace to life? A great physicist measures the risk, answers scientists who think that bomb tests should stop.



TELLER AND COLLEAGUE

Broadway hit on F.D.R. 91

Eleanor Roosevelt's coaching helps Ralph Bellamy give a remarkable portrayal of F.D.R.'s fight on polio in *Sunrise at Campobello*.



BELLAMY AS F.D.R.

Color at ski level 54

Hurting down mountains with camera at ski level, George Silk catches skiing's thrills and beauty in spectacular color pictures.



SWOOPING SKIER

COVER

Flourishing such familiar trademarks as a cigaret holder, pince-nez and a Scotty like Fala, Ralph Bellamy uncannily portrays F.D.R. in new Broadway hit *Sunrise at Campobello* (pp. 91-94)

THE WEEK'S EVENTS

- New moon, made in U.S.: Army launches America's first satellite and pictures give [the best-yet look at a rocket-launching](#) 13
- Teen-ager becomes a mass killer—Why? The people who knew him try to figure out why [a Nebraska boy went on murder rampage](#) 20
- [A Look at the World's Week](#) 32

EDITORIAL

- [The trouble with the slump](#) 29

PICTORIAL ESSAYS

- The skier's own world: camera expresses motion and mood that set the sport apart. [Photographed for LIFE by George Silk](#) 54
- Sad degeneration of our dogs: over-popularity ruins the breeds 77

ARTICLE

- The compelling need for nuclear tests: "father of the H-bomb" and colleague answer 9,000 scientists. Fallout danger is over-rated and we must develop "clean" weapons to spare citizens in war. By Dr. Edward Teller and [Dr. Albert Latter](#) 64

HISTORY

- The *Bounty's* last relics: divers at Pitcairn Island find mutiny ship's anchor 38

FASHION

- [Chemise, plus motion, and voilà—a new shape](#) 44

MOVIES

- Happy London get-together: old friends Ingrid Bergman and Cary Grant enjoy a reunion 49

RELIGION

- A river madonna is erected by a grateful [Missouri town that survived a flood](#) 63

EDUCATION

- School problem—and a suicide: violence in [Brooklyn brings on a principal's death](#) 86

THEATER

- A time of ordeal for young F.D.R.: Eleanor Roosevelt helps actors prepare new play 91

OTHER DEPARTMENTS

- Speaking of Pictures: rings around a neck for [a chin-up girl](#) 8
- [Letters to the Editors](#) 10
- Visit: U.S. mothers in Red China make a poignant tour as they go to see their jailed sons 97
- [Miscellany: bubble trouble in the choir](#) 100

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44—SHARLAND
49, 50, 52—SANFORD H. ROTH FROM R.G.
53—GEORGE HARRIS FROM B.S.
54, 55—U.S. AIR FORCE
56—JOHN BRYSON
57—CHART BY TONY SODARO
71—FRANCIS MILLER
72—COURTESY WESTINGHOUSE
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80, 81, 82—ILLUSTRATIONS BY MICHAEL RAMUS
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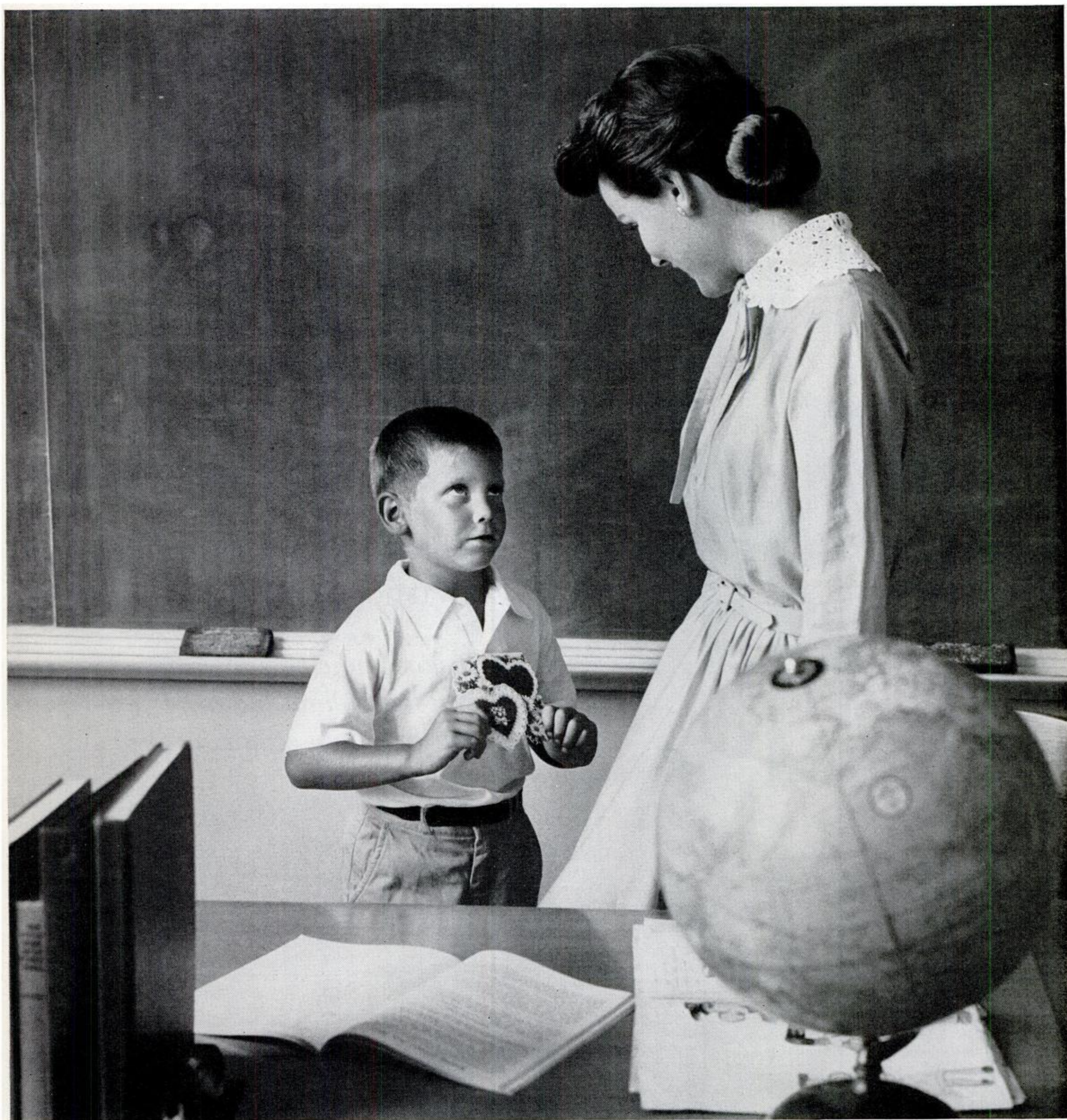
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What is a calorie?

How many calories do you actually need in a day?

What calories are non-fattening?

How can you lose weight without counting calories?

*If you know the answers,
you know how sugar
can help you stay slim*

Q. Just what is a calorie, anyway?

A. A calorie is simply a unit of energy. The human energy you depend on for every life process, every motion and every thought, comes from food. This energy which helps you avoid "that tired feeling," to live to the full, to enjoy life as it should be enjoyed, is measured in calories.

Q. Does this mean that only "energy foods" contain calories?

A. No. All foods contain calories. Protein which we need for tissue building and upkeep contains, ounce for ounce, the same number of calories as sugar and other carbohydrates which we rely on to supply most of the energy for activity.

Q. Are some calories more fattening than others?

A. No. There is no scientific basis for the gloomy philosophy that says, "If you like it, it's fattening." Actually, all the calories that you use up either in body maintenance or energy are non-fattening. This is true whether they come from broiled steak, or lettuce leaves or apple pie. The *only* calories that can be fattening are the surplus calories that you *don't use up*—the ones that come from overeating.

Q. How many calories does the average person use up in a day?

A. Most people actually need more calories than they think they do. The National Research Council recommends 2,300 calories per day as the average allowance for a 121-lb., moderately

active woman. A 160-lb. man will expend from 2,700 to 3,500 calories a day, depending on whether he is sedentary or active. If you have a heavier build your need will be greater, but if you aren't overweight you needn't give calories a second thought.

Q. What about reducing diets that call for 1,400 calories a day or less?

A. Since this is the calorie allowance for a small child such a diet would undoubtedly cause you to lose weight. If you are too fat you certainly should reduce, but a too drastic diet imposes such a tremendous stress on your body one should be attempted only under a doctor's supervision.

Q. Do you need a Calorie Chart to reduce?

A. It isn't necessary. Many people may find it's actually confusing. When you want to lose a few pounds, leading nutritionists now suggest that you simply turn your *regular* diet into a *reducing* diet. You eat the same foods that you normally do. Just *cut down* on all portions. Turn down second helpings. This way you "re-educate" your appetite to get along on less food.

Q. How can sugar help you cut down?

A. Sugar helps to curb an oversized appetite faster than any other food. Many scientists believe that appetite is directly related to the body's need for energy. It is a fact, that ounce for ounce, no other food supplies energy so fast, with so few calories, as sugar.

Q. Does sugar contribute to basic nutritional needs?

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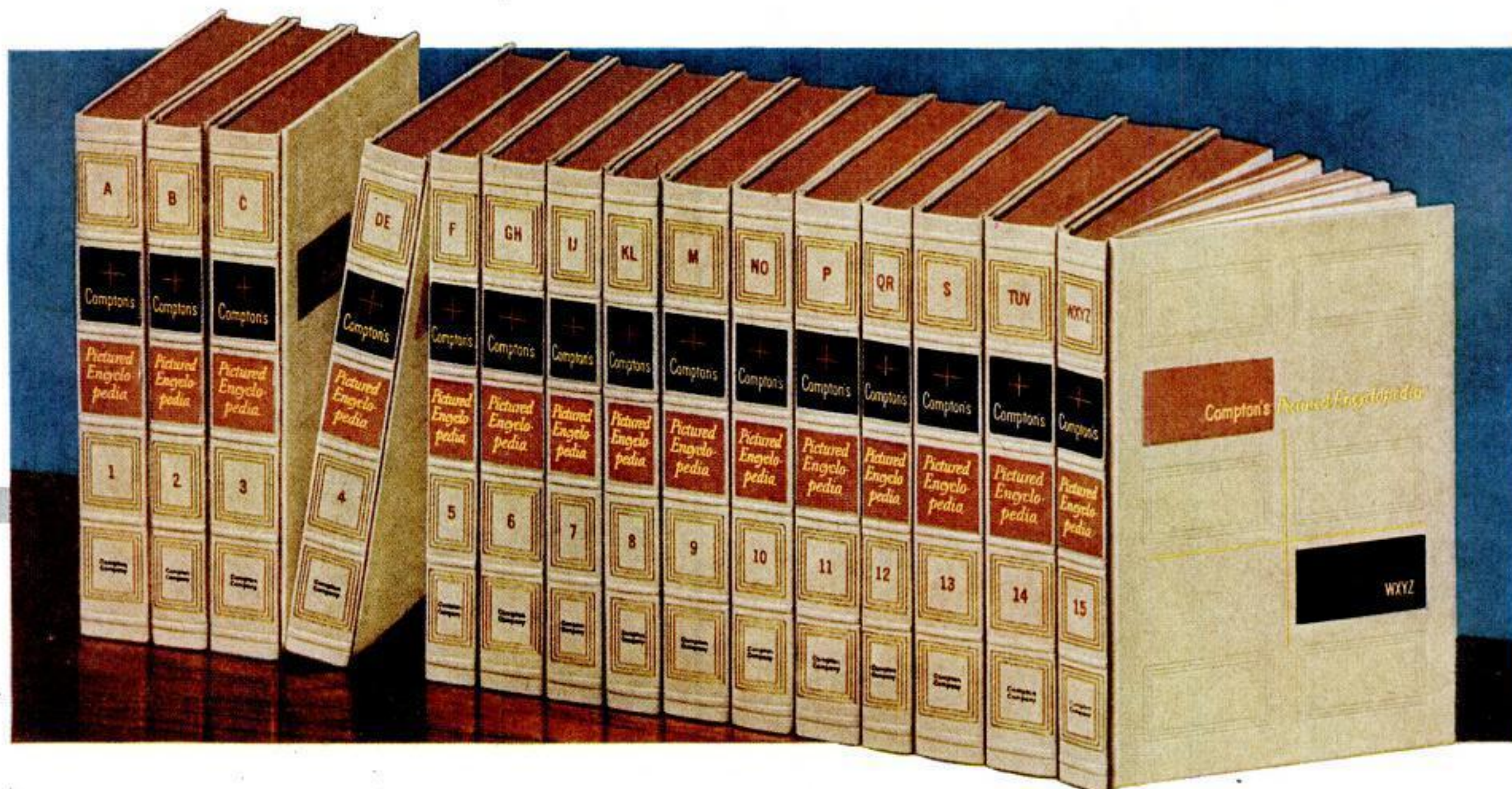
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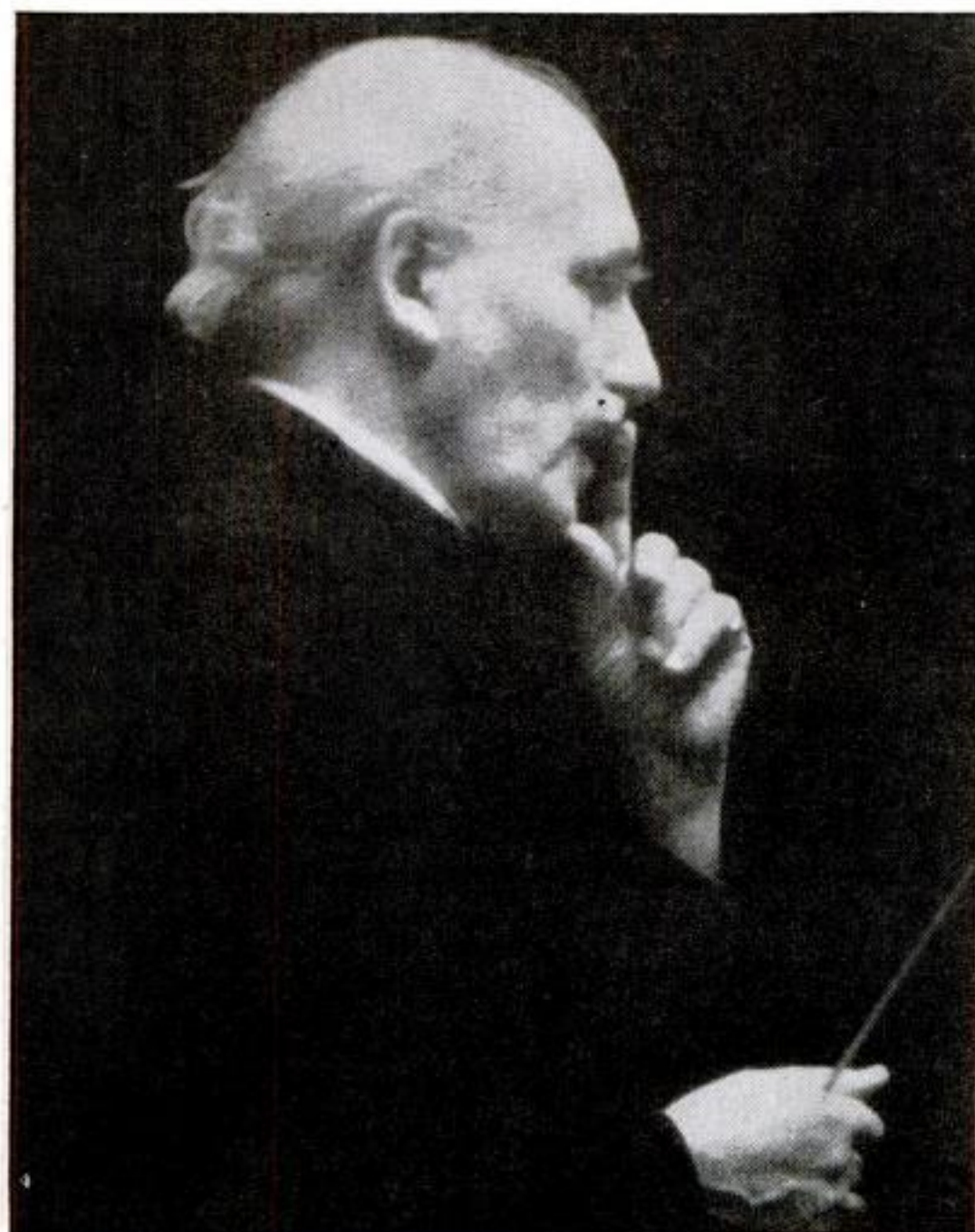
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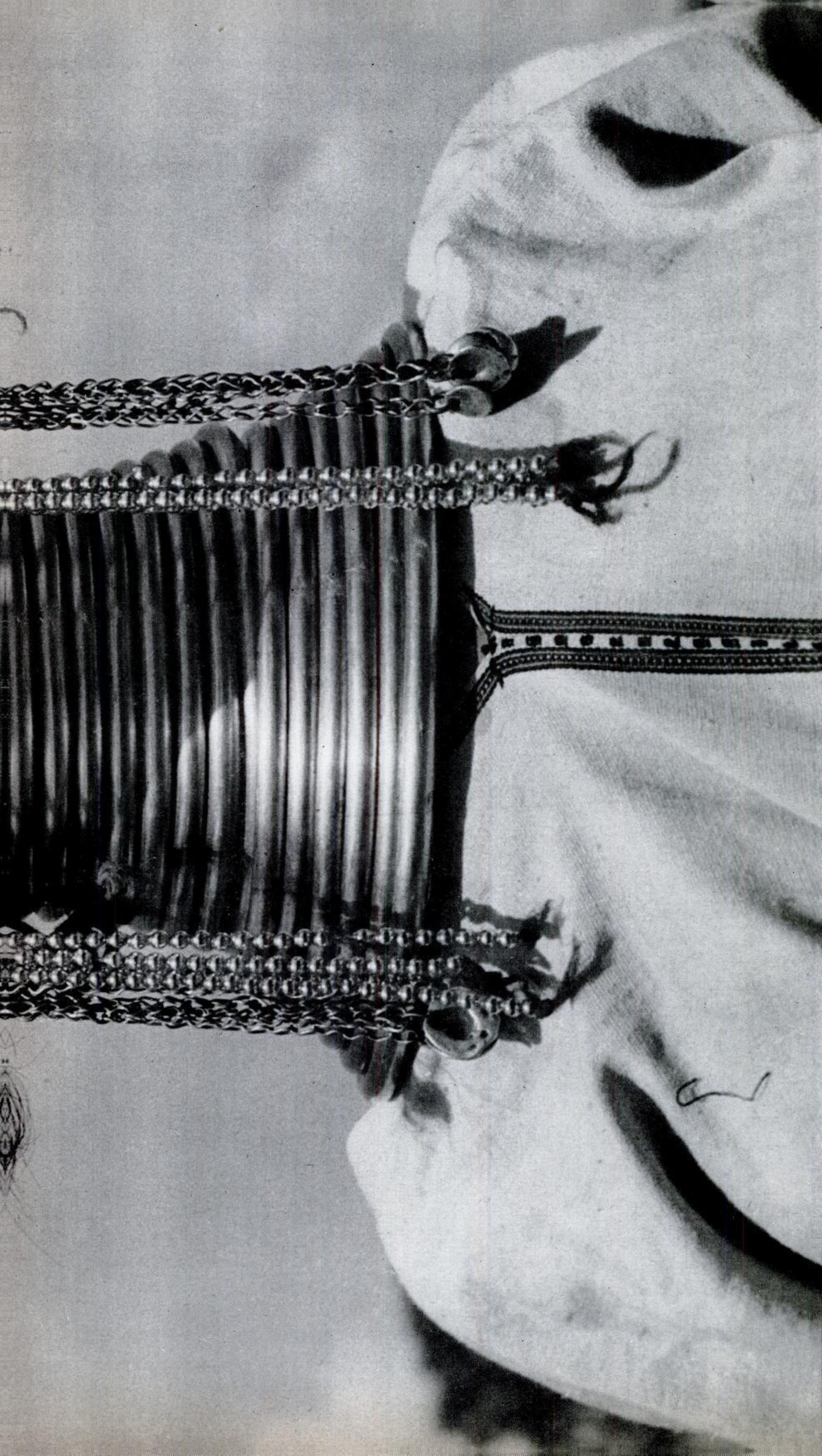
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RINGS AROUND A NECK FOR A CHIN-UP GIRL

In eastern Burma women of the Padaung tribe measure their wealth by the number of rings they wear in a spiral around their necks. Adding cop- per coils year by year, they stretch their necks until their heads seem ready to pop off. There, Explorer Vitold de Golish came upon a woman whose collar approached the maximum. It had 25 rings, stood a foot high, weighed 15 pounds, was bordered by 14-inch ear hangings—all of which, plus the smile, produced this extraordinary picture of long-necked pride.

LETTERS TO THE EDITORS

A BRIGHT IDEA FOR OUR SCHOOLS

Sirs:

The editorial, "A Bright Idea for Our Schools" (LIFE, Jan. 20), is of tremendous importance. The suggestion given by Robert Heller to credit the taxpayer on his federal tax return for payments made by him at the local level for increased school budget costs is the most practical and encouraging solution offered to date.

All I need is a soapbox. How can we start shouting?

ELIZABETH B. PETHICK

Cranford, N.J.

Sirs:

How asinine can you get? Really! Giving each of the 48 states carte blanche to dip into the federal till!

G. M. FOGLESONG

Albuquerque, N.M.

Sirs:

The Heller plan would be of much greater benefit to rich communities than it would be to poor communities where the need is greatest.

GEORGE J. HECHT

New York, N.Y.

● According to Mr. Heller, taxpayers in poorer communities may subtract fewer dollars but those dollars will still represent a larger percentage off their federal tax.—ED.

Sirs:

Your editorial is a good solution to an imaginary problem. There are more than enough classrooms and teachers. We do not need to spend more on buildings. Just give us a full-time, three-semester teaching job, instead of part-time, and see how fast we overtake the Russians!

WAYNE L. SHICK

Associate Professor of Engineering

University of Illinois
Urbana, Ill.

'LYNDON JOHNSON HAS THE BALL'

Sirs:

Your cover and picture story of Lyndon Johnson was a shot in the arm for the Democrats ("Lyndon Johnson Has the Ball," LIFE, Jan. 20). Let us hope that the Democratic nomination is offered to him in 1960. "Win With Lyn" could put him in.

HARRY L. ROBERTSON

Los Angeles, Calif.

Sirs:

If you must plug a potential presidential nominee, why pick on someone as fogbound as Lyndon Johnson? His arrogance and power hunger show through even on a photograph.

MRS. JOSEPH ELICK

Massillon, Ohio



MRS. COHEN HEARS HER OWN VOICE FOR THE FIRST TIME OVER A TAPE RECORDER

SPEAKING OF PICTURES

Sirs:

After seeing Mrs. Louisa Pierotti in several stages of laughter ("A Huge Laugh Busting Loose," LIFE, Jan. 20), I immediately thought of three shots I took of my mother, Rose Cohen, who lives in Newark, N.J. She is an excellent cook and baker. So when I persuaded her to tape-record her recipe on how to make potato pancakes, she seriously took on the job. But when she heard her own voice for the first time she was so shocked that her initial smile grew into hysterical laughter. And while she roared I took these pictures [above].

HARRY COHEN

Colonia, N.J.

RUSSIAN REVOLUTION, PART II

Sirs:

Again LIFE has performed a significant educational service in Alan Moorehead's "Russian Revolution" (LIFE, Jan. 20).

For a number of years very real and urgent efforts have been made to introduce into our school curricula the background material of the U.S.S.R.'s development into a world power. Mainly due to confused and fear-inspired thought, such information has been systematically withheld, in certain areas of the United States, from our teen-agers. It is therefore all the more admirable for a popular weekly magazine to bring out the cogent results of several years of conscientious research and intellectual integrity.

MARJORIE LENDRY

New York, N.Y.

Sirs:

Here is an interesting sidelight on Lenin's education. At the time Lenin's brother was executed Lenin was graduating from high school with the gold medal of high achievement. But because of his brother's crime czarist authorities ordered the principal of the high school to withhold the award. The principal made the award against orders, and later wrote a letter on behalf of Lenin for admittance to the University of Suzdal. The principal's name was Feodor Kerensky. He was the father of Alexander Kerensky, leader of the provisional government overthrown by Lenin in 1917.

JEFF S. HENDERSON II

University of Texas
Austin, Texas

● In a glowing recommendation of Lenin, Kerensky wrote: "Neither in the school nor outside of it has a single instance been observed when he has given cause for dissatisfaction by word or deed to the school authorities and teachers." This was a white lie, for Lenin once was in hot water for ridiculing his French teacher.—ED.

Sirs:

The illustrations are a little too gruesome.

MRS. V. W. BOBISUD

Portland, Ore.

TWO GREAT RESORTS—A CANDID LOOK

Sirs:

Henri Cartier-Bresson exaggerates terribly in "Two Great Resorts—A Candid Look" (LIFE, Jan. 20). When Miami Beach visitors wear extravagant clothing it is

unnatural, but according to his pictures it is all right for Palm Beach ladies to wear fancy dress. Besides, Worth Street in Palm Beach has crumbling curbstones and sidewalks and is not at all "sharp, neat, and clean," as he describes it.

All Europeans think the American way of life is gaudy, and they cannot be considered fair judges of our culture.

BEVERLYE KEUSCH

Miami Beach, Fla.

Sirs:

You went out of your way to make our lovely town staid, stuffy and silly. Shame on you.

JEAN SCOVILLE

Palm Beach, Fla.

LIGHT STEPS IN A DARK WORLD

Sirs:

Thank you for printing an article about blind children which neither minimizes their very real problems nor drips with maudlin sympathy ("Light Steps in a Dark World," LIFE, Jan. 20).

As a teacher of blind children, I sincerely appreciate LIFE's intelligent and sympathetic interest. It's people like Frances Chambers who give themselves, their time and talent, rather than unsolicited pity, who can do the most for blind children. Perhaps your article will help others to understand that, sighted or blind, children are children.

CECELIA TABLER

St. Louis, Mo.

A BREAKOUT FOR THE BAG

Sirs:

Your article, "A Breakout for the Bag" (LIFE, Jan. 20), should have been entitled "The Sexless Sack."

GEORGE W. ADAMSON

Van Nuys, Calif.

Sirs:

What a revolting development!

JOHN JOHNSON

Cazadero, Calif.

Sirs:

If Mr. Norell says the bag will be the style for '58, then this is one gal who is going to be completely out of style.

ELEANOR WHITE

Springfield, Ill.

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ARMY STAKES OUT OUR CLAIM IN SPACE

NEW MOON, MADE IN U.S.

One night last week the pride and prayer of the nation focused on a few men tending the unearthly wants of a fuming metal monster. The missile men were sweating out the last steps of a countdown at Florida's Cape Canaveral as the U.S. sought for the third time to launch an earth satellite. Nearby stood a disheartening reminder of earlier failure—the Navy's too finely bred Vanguard rocket. Now the Army team was up, challenged to make good on its claim of being able to put up a satellite.

The rocket with which the Army was working—they called it Jupiter C—was a coopered-up conglomeration of stock parts. Its first stage

was a version of the Redstone, a development from Germany's wartime V-2. Its second and third stages were clusters of smaller rockets, probably adaptations of the Army's solid fuel Sergeant. At the top was the satellite itself, a dainty, pencil-thin shell whose two radios—if it ever got up there—would send back temperature, cosmic ray and meteor data.

But would it get up there? The seconds ticked off a metronomic agony: "... minus 10 seconds, nine, eight, seven . . .," and finally minus nothing. Then came a great roar, a white fist of flame, and a ragged thunder beat down on the cape. Up and up the missile rose,

turning the mist a bright orange, disappearing briefly into the clouds, then reappearing before vanishing into space.

Two hours later President Eisenhower was able to announce that "the U.S. has successfully placed a scientific earth satellite in orbit around the earth." These pictures, mostly taken by Army Lieut. Don Uhrbrock, show in greater detail than ever before the tense adventure of rocket-launching. With the rocket gone far beyond camera range, 30.8 pounds of metal began to circle the globe at 18,000 miles an hour, making up, to some extent, for the U.S. humiliation due to the Russian Sputniks.



MOMENT OF DECISION—to delay or go ahead—involves (from left) Army's K. H. Debus, Caltech's

J. E. Froehlich, General Medaris, Army's Walter Haeussermann. Bad weather caused 24-hour delay.

DRAMA OF THE COUNTDOWN

Tension attending the countdown which preceded the launching of "Explorer," as the new satellite is now called, is shown by the pictures on these pages. The man who directed the countdown, Army ballistic engineer, Robert Moser, later described the drama-packed experience. "I walked off a quarter inch of shoe leather," he said. "It began with a few preparatory steps, like taking rain protectors off the missile and removing tape from valves. The minute-by-minute count began at 1:30 p.m." At 4 o'clock Moser ate a grilled cheese sandwich. "It was the only food I had all afternoon and evening. But I smoked a pack and a half of cigars."



COUNTDOWN'S MOSER

"I was continuously on the phone with one party or another. Lord, those phone circuits. Everybody is tied on to the circuit, and you have to learn to understand five conversations at once. You learn to listen to the one you should be listening to and forget the others. . . . My duty is not to command every detailed step. . . . They report specifically to me

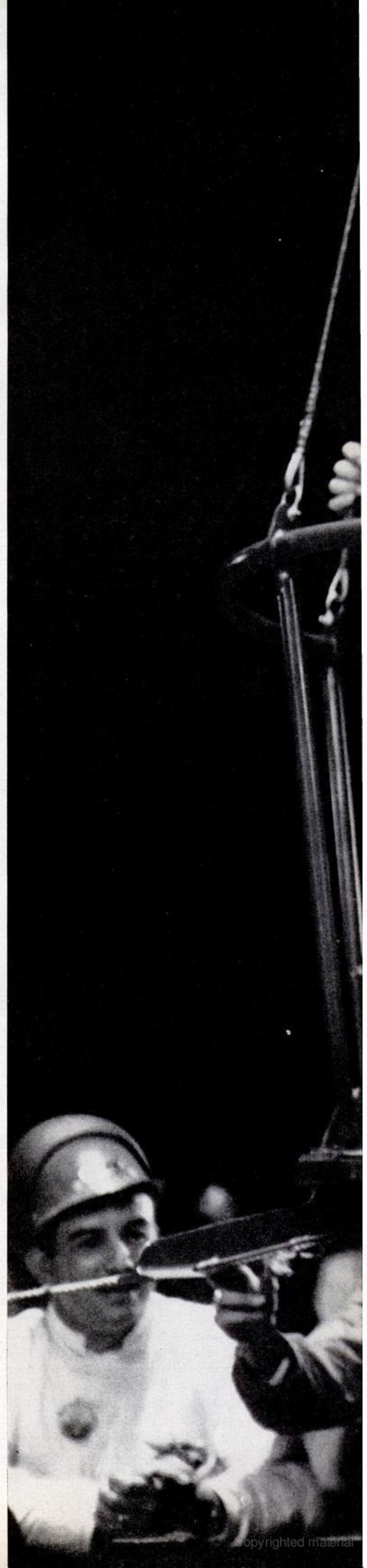
only when there is trouble. The countdown Friday was one of the best we've ever had for a research and development type missile.

"About 10 or 15 minutes before the launch, we cleared the pad of all people. . . . In the last two or three minutes the missile was essentially all prepared for launching. . . . I carried the countdown list on a clipboard and began calling off each final item. I said, 'Arm destruct block,' and the fellow operated the switch, monitored it and called back to me, 'Roger. Destruct block armed.' . . . During the last two minutes, I called off the countdown every five seconds. When I reached X-zero, I ordered, 'Firing Command.' The man operating the propulsion panel pushed a button marked 'Firing Command' with his thumb. . . .

"This was a missile with anxiety riding with it. In the back of our minds, we all said a little prayer. We all wanted to keep the Army Ballistic Missile Agency team on top. For the first 10 seconds after lift-off the blockhouse was like a football stadium with people saying, 'Go, go, go,' trying to push the missile on up there. . . . There was no relaxing until we knew the second stage had been fired. Then some of the tension went off. . . . After the press conference, I went over to a colonel's house for a couple of bourbons and 7-Up. They sure tasted good."

MOMENT OF CRISIS comes in fueling as crewman holds up five fingers to indicate a five-gallon

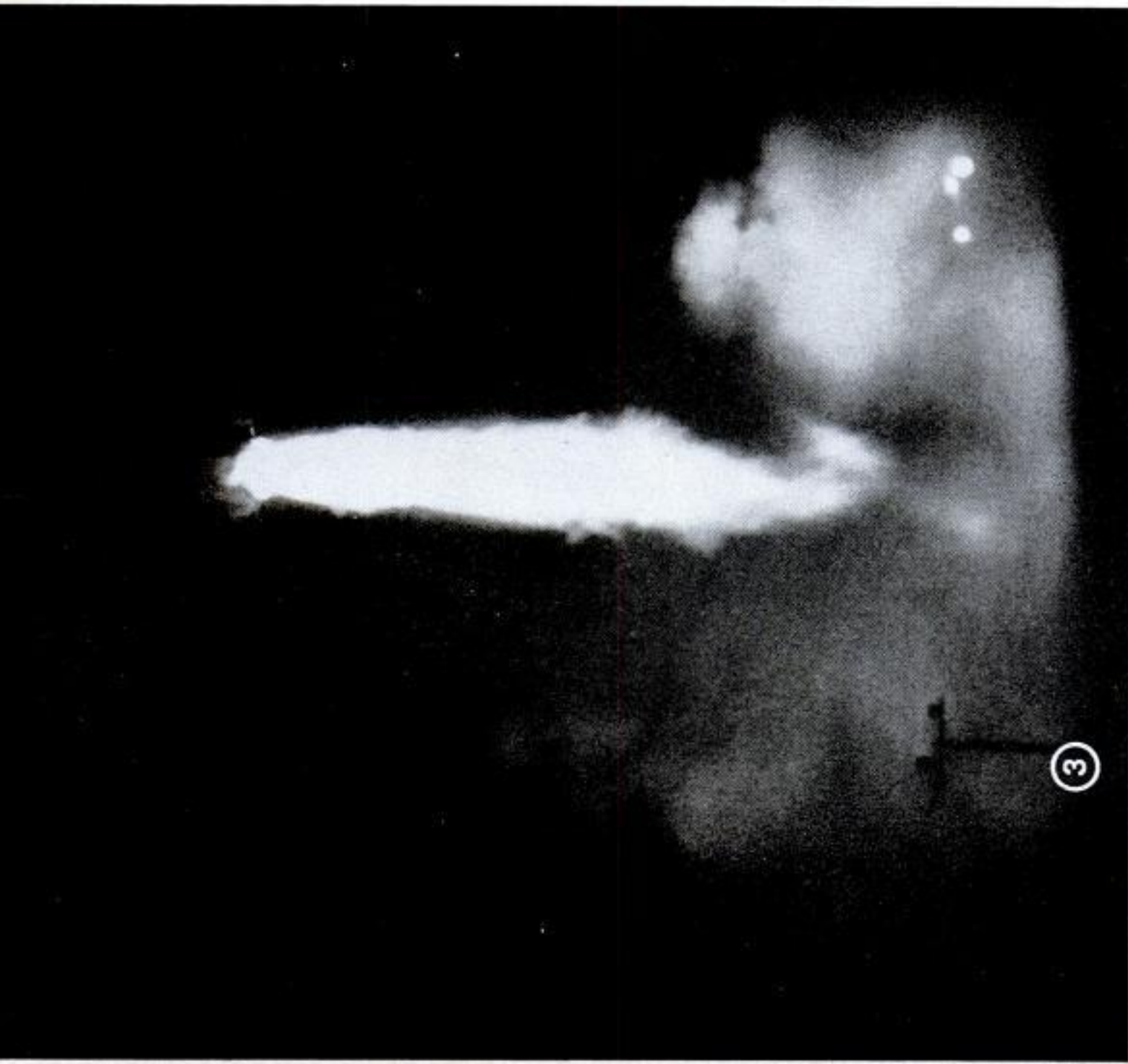
shortage. It turned out to be a simple error in calculation and this caused only a momentary delay.





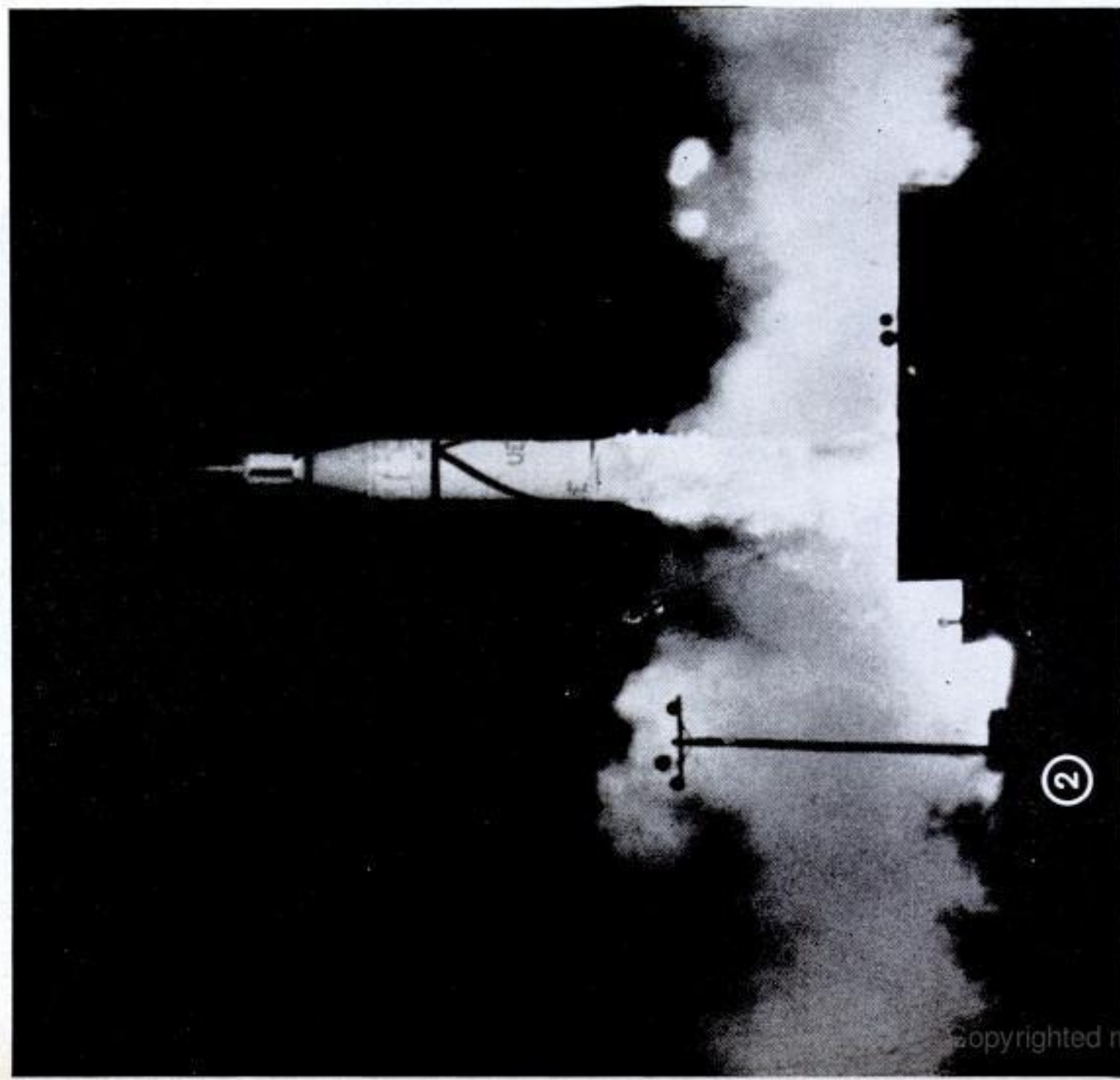
SPELLBOUND WATCHERS, technicians look up at the almost-ready Jupiter C just prior to take-off.

← **INSTALLING SATELLITE** (*in protective cover*), crewmen guide it to its berth on top of the missile.



③

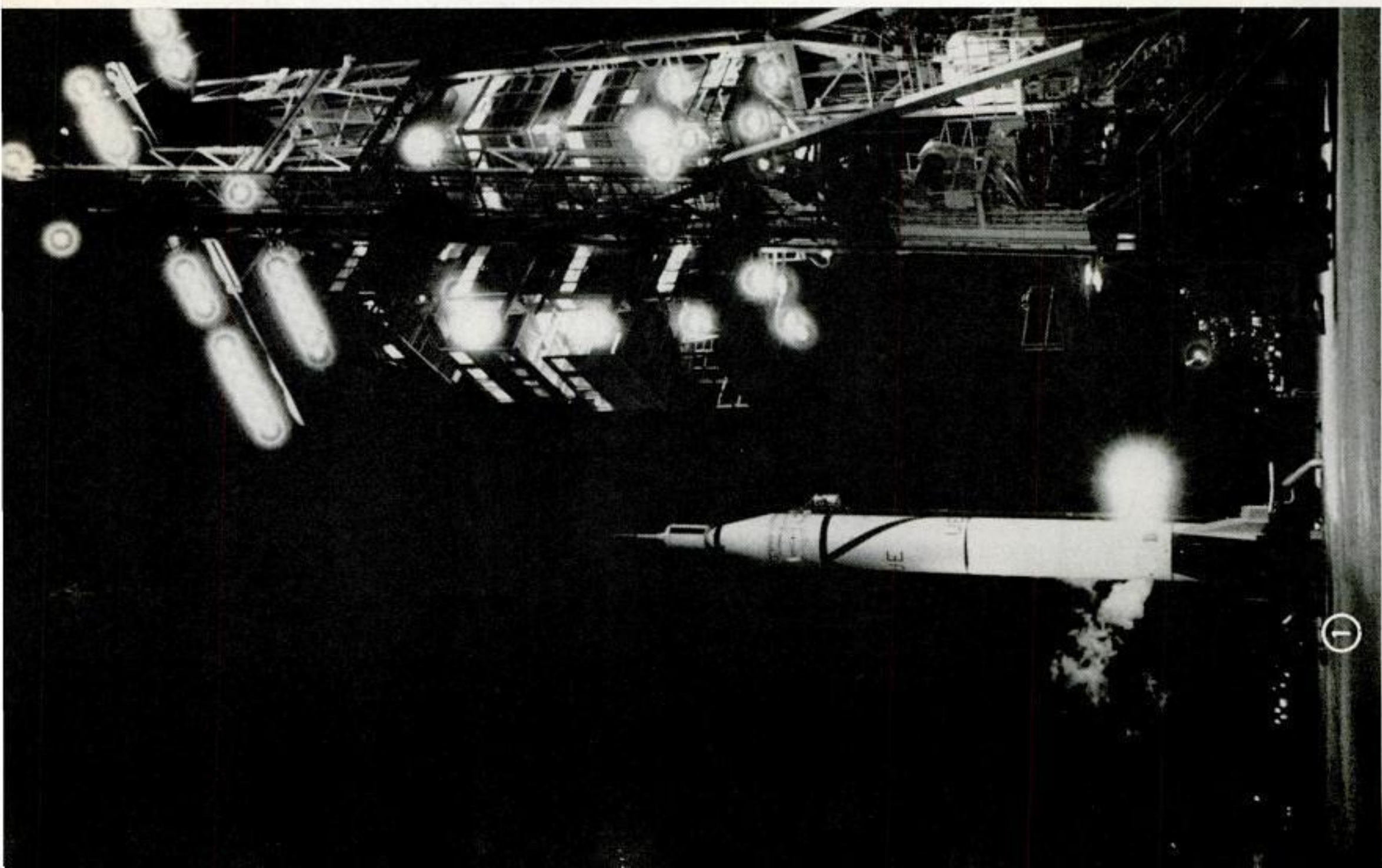
ACCELERATING ROCKET leaves a brilliant trail of fire in first seconds after its take-off as it streaks majestically into the sky.



②

AT INSTANT OF TAKE-OFF launching pad is blanketed with billowing clouds of flame spewed out by space-bound Jupiter C.

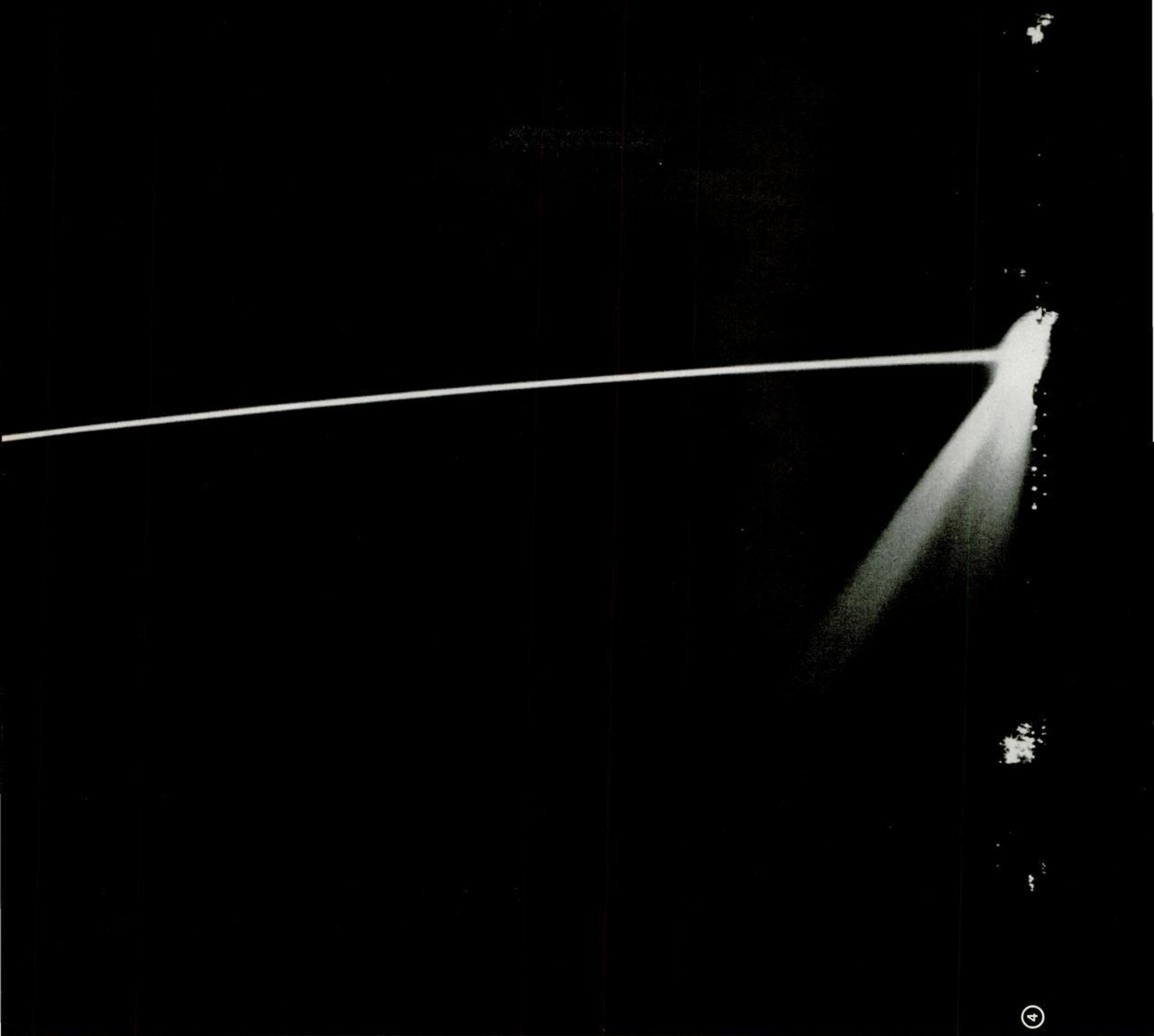




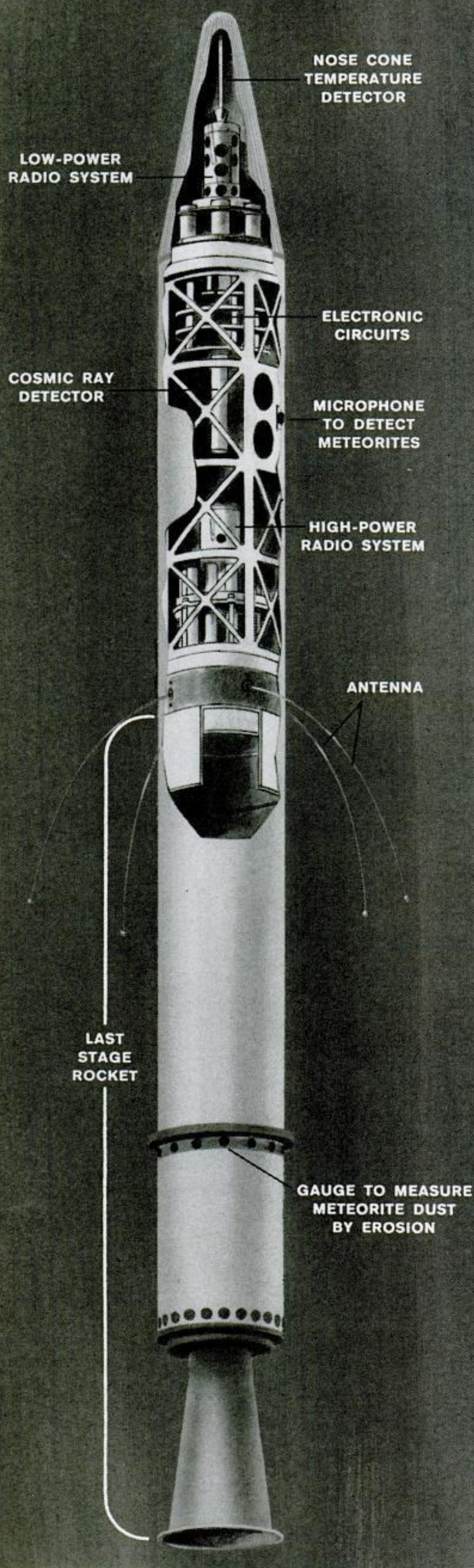
AT MINUS 30 MINUTES service tower is rolled away, leaving the brightly lit missile standing unsupported for final checks.

AFTER BLAST-OFF, HIGHER, HIGHER...

FIRST MINUTE OF FLIGHT is shown in time exposure which —→ tracks rocket from launching pad to altitude of about four miles.



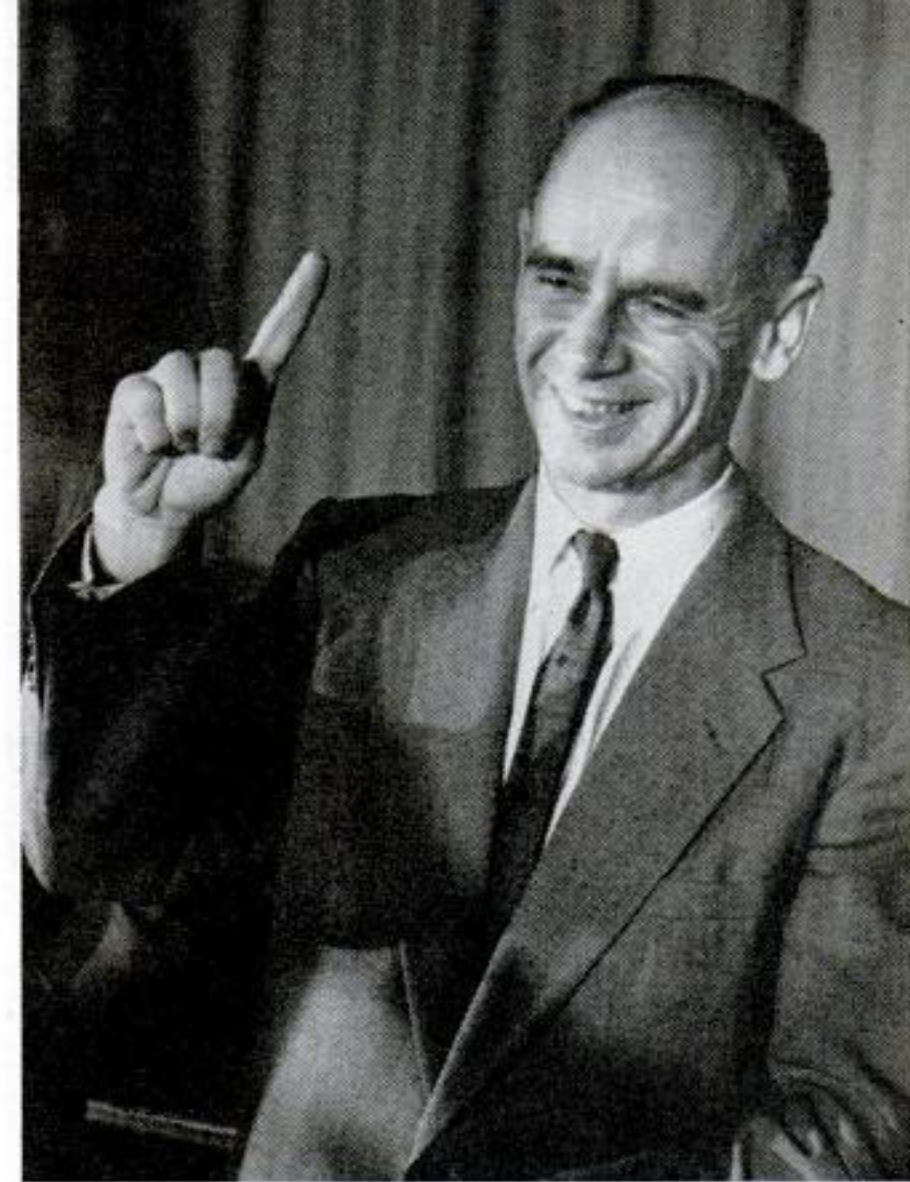
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ANATOMY OF SATELLITE is revealed by cut-away drawing of 80-inch long, six-inch wide steel casing. Top half holds scientific instruments to measure nose temperature, count cosmic rays, detect sounds of meteorites hitting casing. High-power radio battery will give out in two or three weeks. Low-power set should keep transmitting data earthward for three months. Bottom half of casing is burned-out shell of rocket's last stage, which carries gadget to record erosion caused by meteorite dust.



HAPPY COMMANDER, Major General John Medaris, who heads Army missile agency, grins at press.



A CHARMED FINGER is exhibited by Dr. Ernst Stuhlinger who set off the final stages of the rocket.

A JUPITER-BASED JUBILATION

Explorer's successful launching put smiles on U.S. faces everywhere, but the smiles were especially broad among the rocket experts who had insisted all along that the U.S. could have beaten the Russians to the draw on an earth satellite. For Wernher von Braun, head of the Army's missile team, it was truly the hour of vindication. He worked on the original V-2 from which the Army's Redstone was developed and, after Sputnik I, he claimed that the Army could have put a satellite in orbit before the Russians and could still put one up before the Navy's Vanguard—if given a green light. He finally got the go-ahead when the Russians launched Sputnik II.

In Georgia, President Eisenhower reacted to the first good news with "That's wonderful!" Then, in an indirect slap at the Russians, he announced that all data obtained from the satellite would be turned over promptly to International Geophysical Year headquarters in Brussels. Perhaps only coincidentally Russia

claimed that information from the two Sputniks, which the Soviets have so far kept to themselves, was in the mail to I.G.Y.

The most jubilant place of all was the "Rocket City" of Huntsville, Ala., a missiles boom town next to the Army's Redstone arsenal. Huntsville, which has more than tripled in size in the last seven years, celebrated the Army's Jupiter C success as strictly local. As the satellite completed its first trip around the world, Huntsville Mayor R. B. Searcy went on the radio to call everyone downtown to celebrate. Drivers sat on their horns, teen-agers threw firecrackers and police joined in with sirens. But for Huntsville the most satisfying part was rubbing it in on former Defense Secretary Charlie Wilson, who was burned in effigy on the town square. It was Wilson who, back in 1956, had restricted Army rocket research to missiles with a range of 200 miles—and he had headed the Department of Defense when the satellite project was turned over to the Navy.



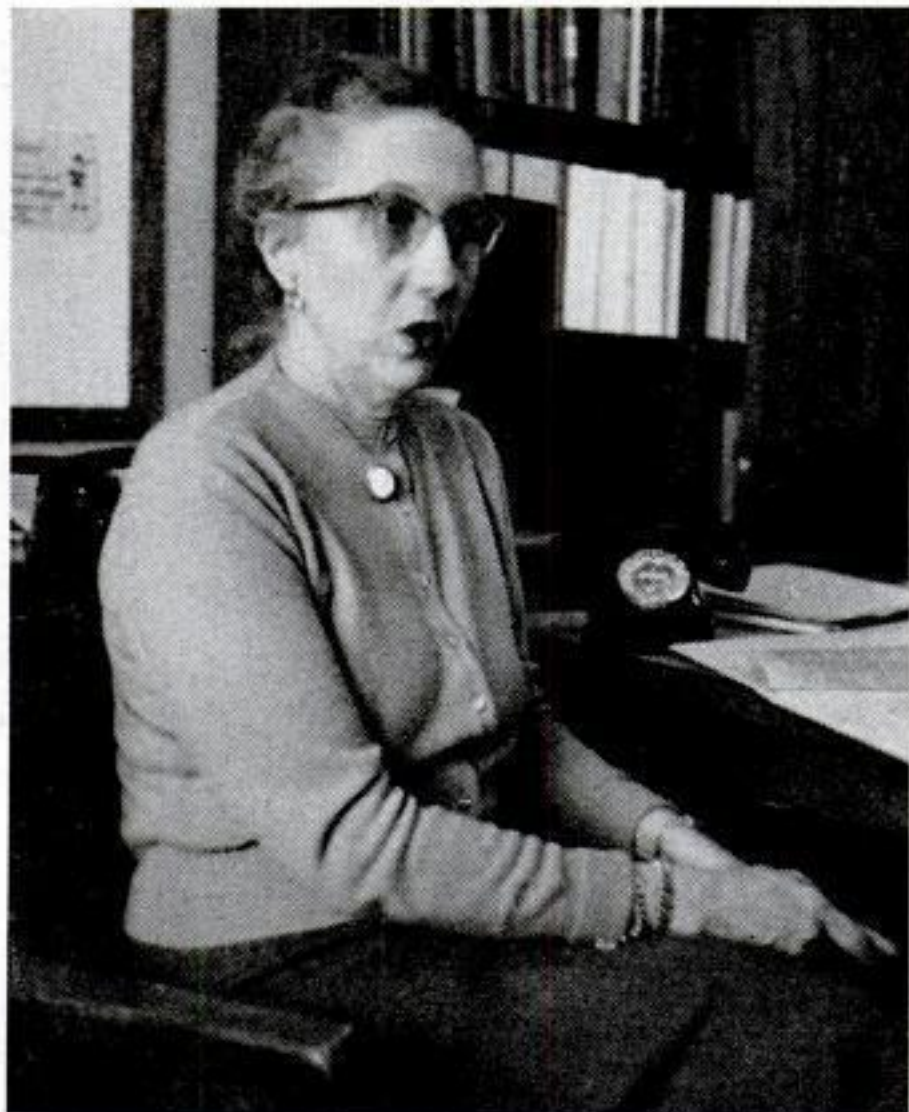
TRIUMPHANT SCIENTISTS, headed by Wernher von Braun (right), hold up model of Explorer. Others are Dr. William Pickering of Caltech and Dr. James Van Allen, head of an I.G.Y. satellite group.

ROCKET CITY'S RIPOSTE to former defense secretary is expressed by townfolk of Huntsville, Ala., preparing (right) to burn his effigy. Wilson cut back missile program at nearby Redstone arsenal.





IN HAPPIER DAYS, Charlie Starkweather, Caril Fugate were photographed during call on landlady.



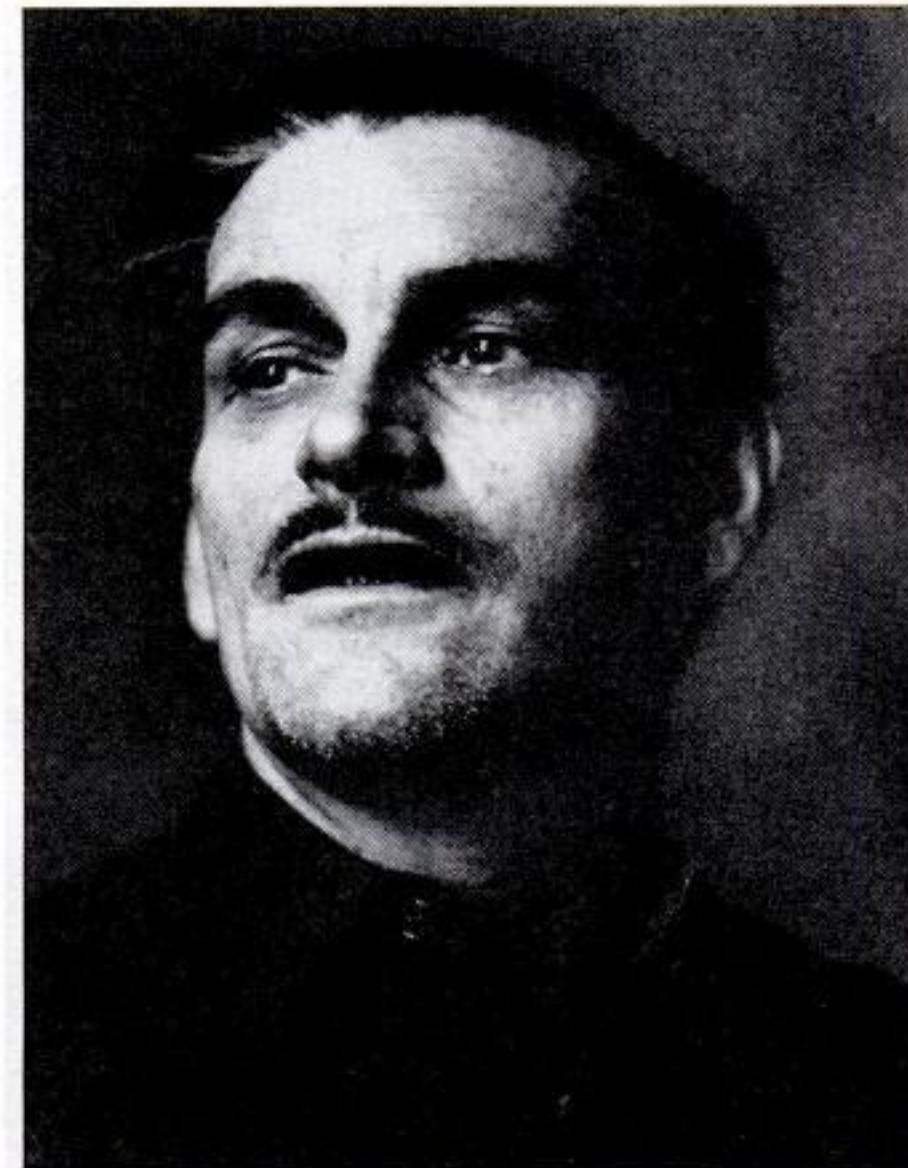
SCHOOL PSYCHOLOGIST Janet Smith gave tests to Charlie in 1954 and found him below average.



CHARLIE'S LANDLADY, Mae Hawley, occasionally had to lock him out for nonpayment of rent.



CHARLIE'S MOTHER, Helen, 43, says "We never had to chastise him except for an occasional spanking. . . . He wore cowboy boots but there isn't anything so bad about that." She has six other children.



CHARLIE'S FATHER, Guy Starkweather, 47, a carpenter, says son "was always one of the quiet ones," recalls that he would do housework and later gave mother \$15 a week from pay as garbage collector.

TEEN-AGER BECOMES A MASS

A boy's past, recalled by those who knew him, gives clues to orgy

Some people thought that 19-year-old Charles Starkweather looked like a cross between James Dean and Elvis Presley. There were the shaggy sideburns, the moody, cryptic gaze, the sensual mouth. Last week, because of Charlie, his home city of Lincoln, Neb. and the surrounding area experienced murderous terror such as the Midwest has rarely known. Before he finally wound up in a Wyoming jail (*opposite page*), Charlie had killed 11 people and stood branded as one of the most casually remorseless slayers in history.

The terrible truth about Charlie started to emerge when relatives got suspicious of strange goings-on at the home of Marion and Velda Bartlett. Bartlett's stepdaughter—Velda's daughter Caril Fugate, 14—told callers the Bartletts were sick and couldn't see anyone. The relatives came back with detectives and found the house empty. The detectives kept looking and nearby they finally found the Bartletts and their tiny daughter, Betty Jean, brutally murdered. By then Caril had disappeared. So had Charlie Starkweather, her boy friend, and an alarm went out for both.

Then an elderly farmer and two teen-agers were murdered at Bennet, Neb. Charlie's old Ford had been abandoned nearby. The next victims were a Lincoln businessman, his wife and their maid. Lincoln was in panic; no one knew where Charlie and Caril were. National Guard units were alerted and vigilantes were posted at schools. Meetings were canceled, sidewalks all but deserted, stores padlocked.

The trail led to Wyoming, and suddenly it was all over. Moments after he had killed his 11th victim, Charlie was disarmed by a brave motorist. He fled, but Wyoming police captured him after a bullet-spattered chase.

At that point, the haunting question was why a nondescript boy had gone flailing off on a savage but patternless mission of murder. In the first grief-ridden days that followed, LIFE

Correspondent John McDermott talked to the people who had known Charlie best.

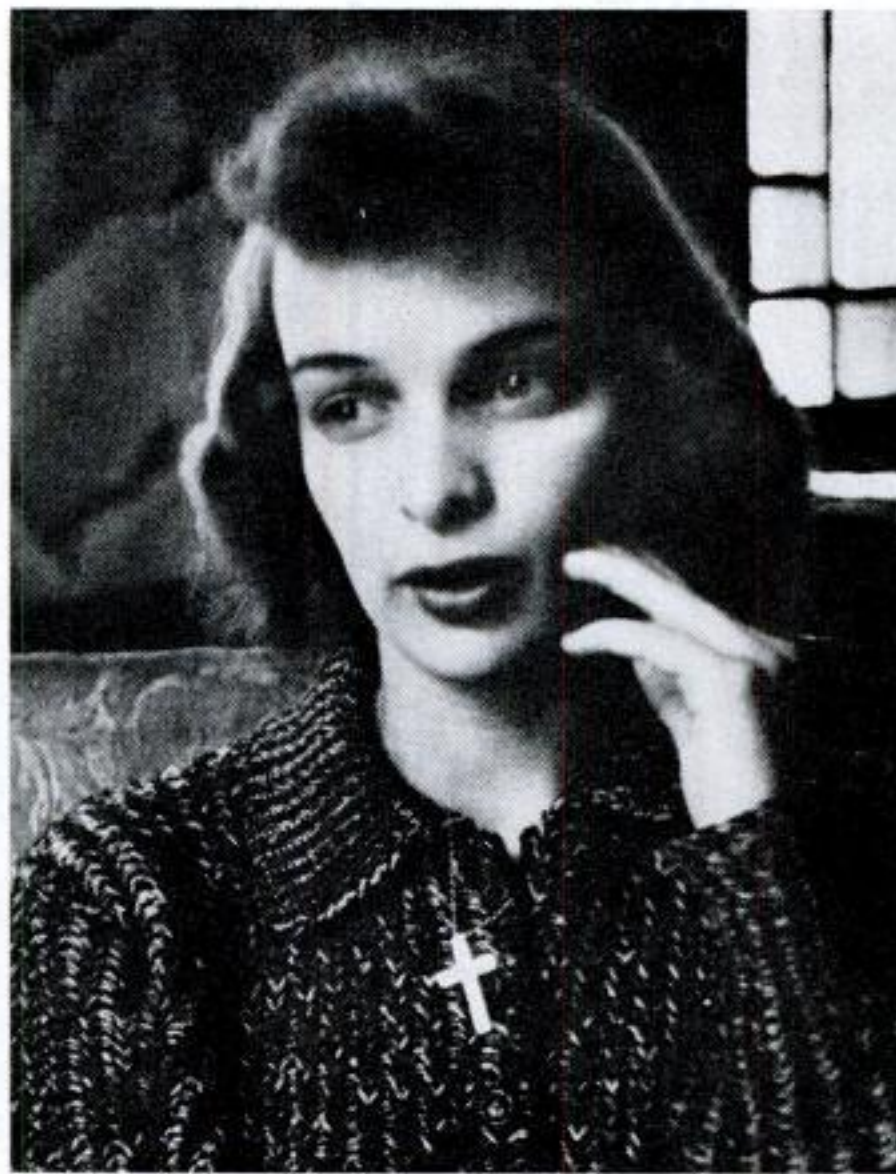
Guy Starkweather, Charlie's father, remembered that as a boy Charlie "couldn't hear too well and he was real slow with his words." An operation fixed the hearing but a speech impairment remained. Charlie's eyes were weak and he was small and bowlegged. At school, Charlie's defects made him the butt of jokes and constant teasing.

"One day they were out playing football," Mr. Starkweather remembered, "and here comes this bully over to Charlie and says, 'Give me that ball you s.o.b.' Well Charlie gave him the ball. Right full in the face. And he come at that boy right after he threw the ball. The next day, they put seven stitches inside the mouth of this other boy. After that, everyone wanted to fight him. He had licked the bully. Why, it was just like being the fastest gun in town."

Helen Starkweather, too, recalled that children would call her son names and he would take offense and fight "because he thought it would reflect on me." But Charlie's brother Rodney said, "He was mean in a way. He liked to fight a lot and he got mad fast."

After one fight too many, Charlie was transferred to another school. He had trouble with his studies and the school psychologist found his I.Q. to be in the dull-normal range. When, at 16, he could legally quit school, he did. He began working on and off as a helper with his brother Rodney on a garbage truck. Cars became his big interest. He drove in stock-car races at nearby Capitol Beach. "They had one race called the demolition race," says Mr. Starkweather, "and the idea, I guess, was to smash into anyone that got in your way. He liked that one best."

Despite his poor eyesight, Charlie was a dead shot. His father remembered one time he and Charlie were hunting. Mr. Starkweather spotted a rabbit a block's length away. "I gave



THE KILLER AS AN ARTIST showed creative aptitude early. Starkweather's third-grade teacher once noted on his report card that "Charles has fairly good art work and does rather clever designs." And his father recalls proudly that Charlie "could sit down and draw a pencil sketch of you and you wouldn't know

the difference." Here are reproduced two of his efforts, a portrait of his favorite sister, 17-year-old La Veta Jeanne (*left*) and a cow's skull (*right*). La Veta herself (*center*) says, "When he was out of school and working, I would clean up his room for him. He always wanted to pay me for it but I wouldn't take any money."

KILLER—WHY?

of slaughter that left 11 dead

Charlie my Mauser rifle and told him to take aim. 'Get him right in the back of the neck,' I said. And Charlie did."

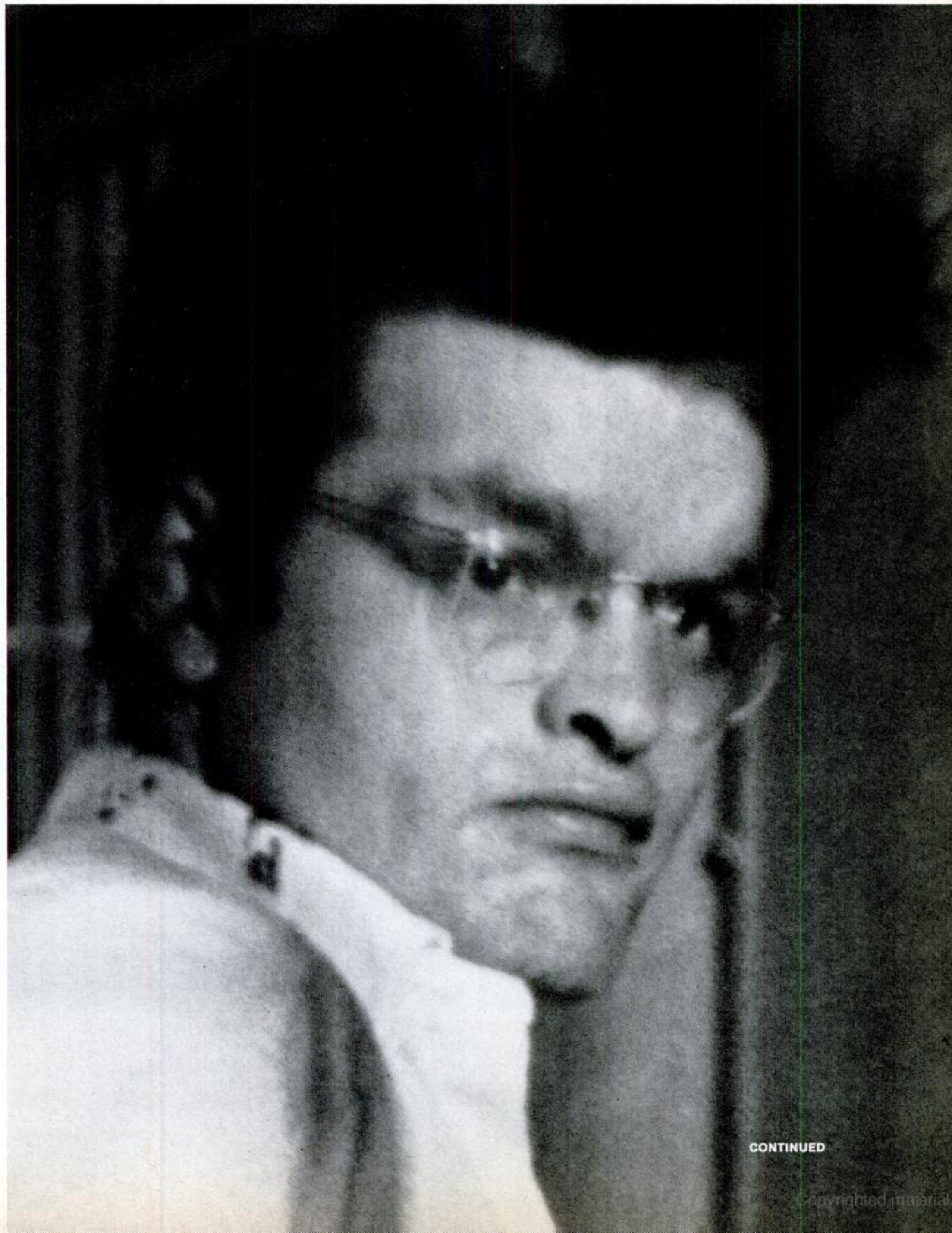
Eighteen months ago, Charlie began going steady with Caril Fugate, then only 13. Charlie's sister, La Veta Jeanne, says, "A lot of people thought she was a regular little snip—you know, a snot—and that she treated him like dirt. But she could do no wrong. He would fill up his bedroom with things that he would buy for her." Charlie took more pains with his appearance, fussing over his ducktail haircut. "He used to pose like James Dean," La Veta said. "He'd stand there with a cigaret hanging from out of the front of his mouth. You know, with the lips apart so his teeth would show."

Last fall Charlie decided he wanted to marry Caril and told his father. Mr. Starkweather said he must wait until Caril was 16. Charlie let Caril borrow his car, against his father's orders. She had an accident and his father told Charlie to leave home. "I guess," said Mr. Starkweather in an understatement, "that's where I made my first mistake."

Charlie moved into a boarding house. Some say Caril's mother and stepfather unsuccessfully ordered Caril not to see Charlie anymore. In December, Charlie held up a filling station and killed the attendant. He was not caught and nothing happened until he went to visit Caril's family two weeks ago.

Piecing together everything that had happened since then, the experts sought to explain just why Charlie did it. Said Dr. James Reinhardt, a criminologist at the University of Nebraska: "Here was a totally defeated ego which had no satisfactory anchorage in social life. Socially he was simply an empty man. The only way he could become important was by killing." If that was true his bloody trail, which is detailed on the following pages, made Charlie Starkweather very important indeed.

HIS COLLAR BLOODY FROM BULLET-NICKED EAR, CAPTURED STARKWEATHER STARES BALEFULLY IN CELL



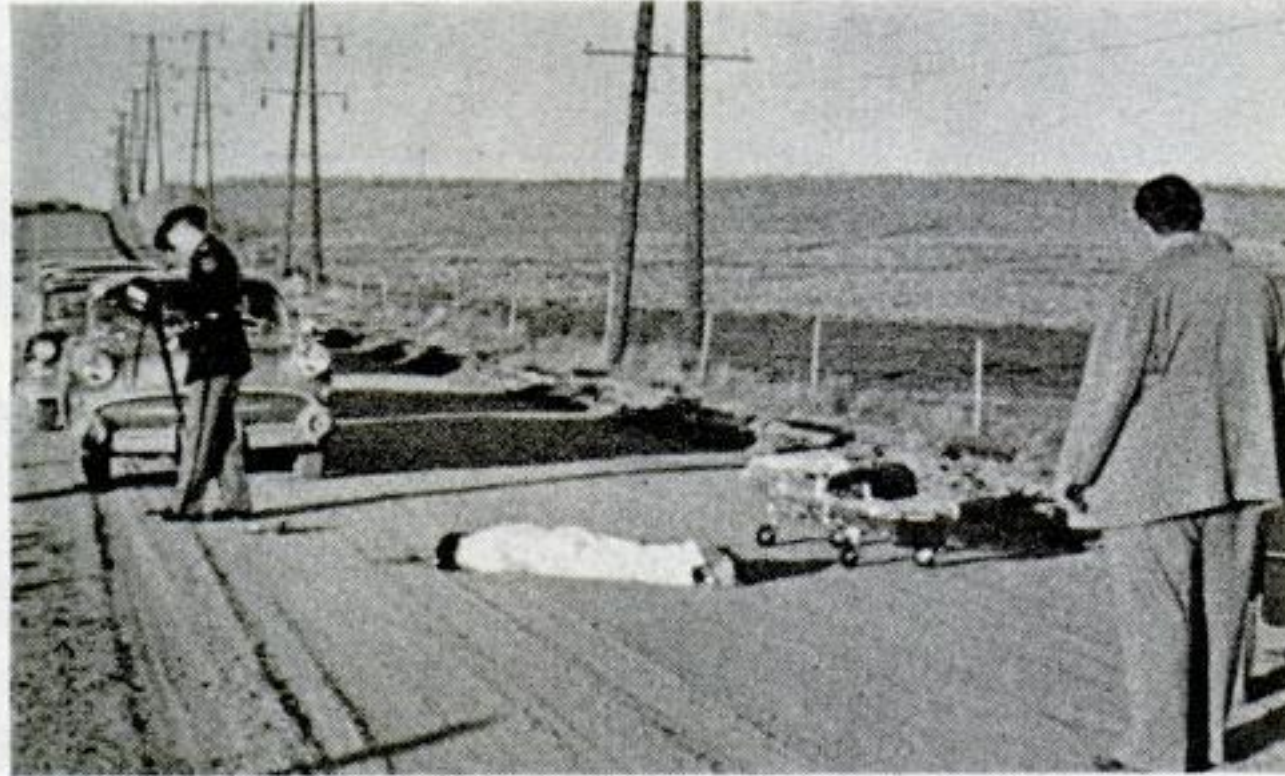
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WHERE ELEVEN MET STARKWEATHER, DEATH: A FARMHOUSE, LONELY ROADS, A CITY HOME



FIRST VICTIM, murdered in December, was Robert Colvert, 19, a Lincoln gas station attendant. Starkweather robbed the station, then took Colvert



to lonely road and shot him. Body was discovered next morning (right). With the \$160 loot Starkweather paid overdue rent, opened savings account.



HIS GIRL'S FAMILY was killed by Starkweather as murderous spree began. Caril Fugate's half-sister, Betty Jean, 2 (top left), was clubbed with gun butt.

Mother, Velda, 35, and stepfather, Marion Bartlett, 57 (top right), were shot. Bodies were found six days later in buildings behind the Bartlett house (above).



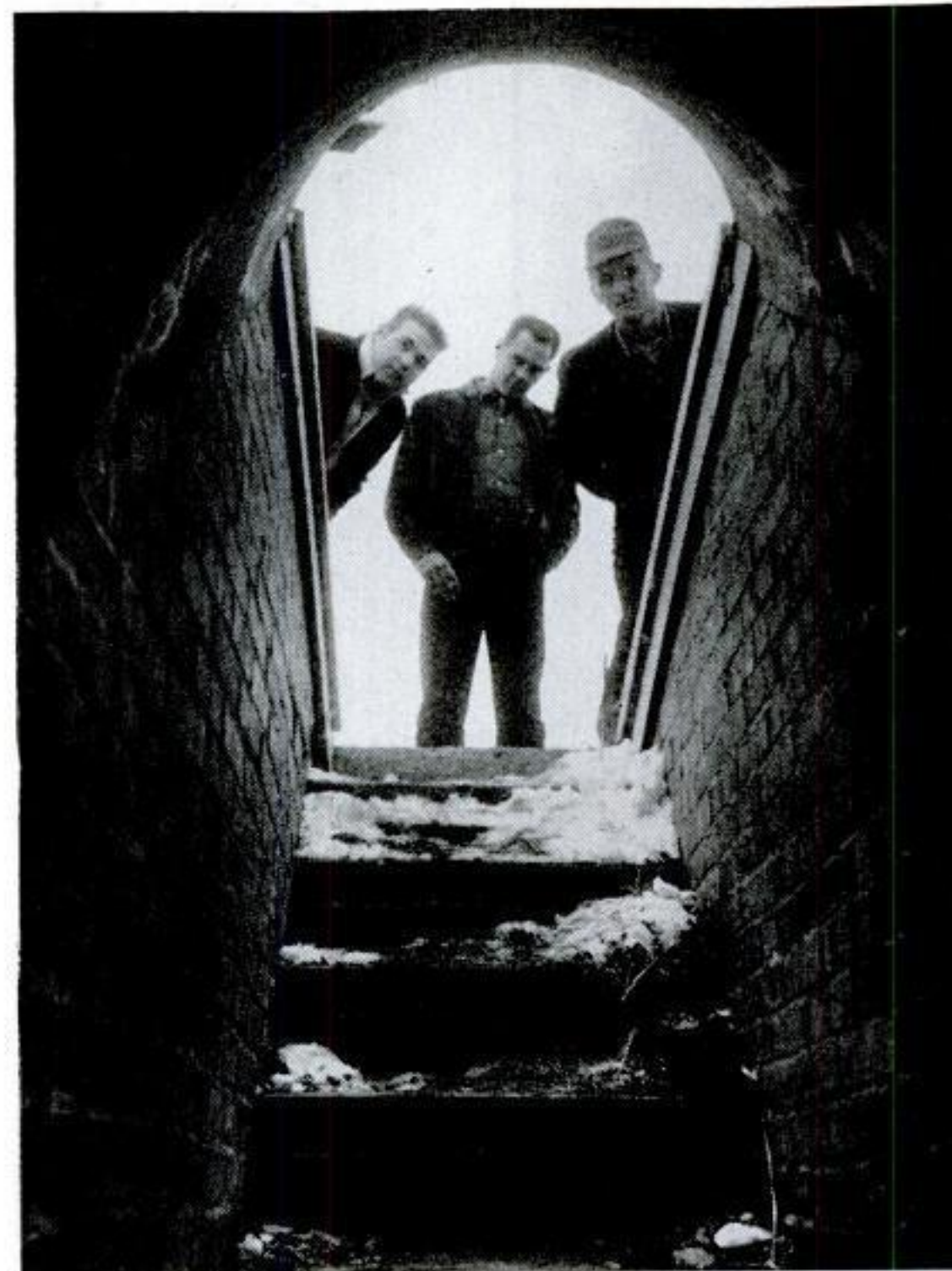
FIFTH VICTIM, AUGUST MEYER, LIVED ON FARM



LAST NEBRASKA VICTIMS (right) were C. Lauer Ward, 48, a prominent Lincoln industrialist, his wife Clara, 46, and their maid, Lillian Fencel, 51. Starkweather had become familiar with the Ward home (above) in Lincoln's fashionable country club neighborhood when he collected garbage there. He and Caril entered the house the morning after he killed Farmer Meyer and the teen-agers. Mrs. Ward and the maid were bound and gagged, then stabbed to death. The couple parked their stolen Ford in the Ward garage, ransacked the house for cash and settled down to wait all day for Mr. Ward to return from work. Just before 6 he drove up and was shot and stabbed as he entered the house. After dark Starkweather and Caril left the house, took Ward's 1956 Packard and began their all-night drive west.



NEAR BENNET. TRACKING PAIR. POLICE CAUTIOUSLY APPROACHED HOUSE BUT THEY HAD FLED



SLAIN SWEETHEARTS, Carol King, 16 and Robert Jensen, 17, picked Starkweather up near Meyer farm. He marched them to storm cellar (above) and shot them, then took Jensen's Ford.



FINAL VICTIM was a shoe salesman, Merle Collison, 34, from Great Falls, Mont. who was asleep in his Buick west of Douglas, Wyo. when Starkweather spotted him and decided to take his car. Starkweather fired through window (indicated above by undertaker), then opened door and fired more shots. He was trying, unsuccessfully, to start car when a passing motorist, Joe Sprinkle, stopped to help. Sprinkle disarmed Starkweather, who then began his last, brief flight.





CAPTURED AT LAST, Starkweather stands in a Douglas, Wyo. jail. He gave up after 115-mph chase.



GUARDING AGAINST TERROR at height of panic over Starkweather's whereabouts, vigilantes stand

watch with pistols and shotgun at Lincoln's Beattie School. That afternoon the couple was captured.



BACK IN NEBRASKA, handcuffed Starkweather walks sullenly into state penitentiary at Lincoln.

DAZED CARIL, who had cried for "my mommy," → gets breakfast from sheriff's wife in Wyoming jail.





QUICK FROZEN
BY SWANSON

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it's a quick-frozen Swanson pie!**

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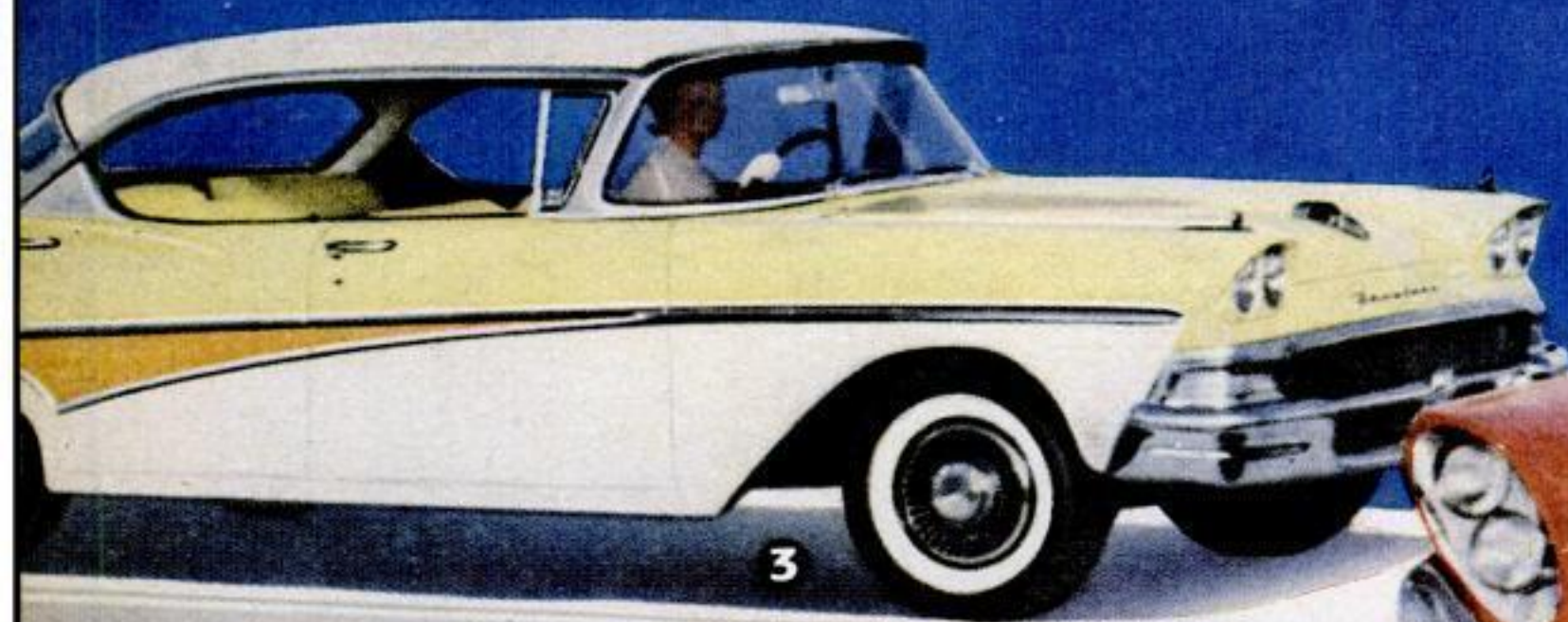
A PRODUCT OF *Campbell* SOUP COMPANY



Family Size . . . Individual Size.
Apple, cherry, blueberry, peach.

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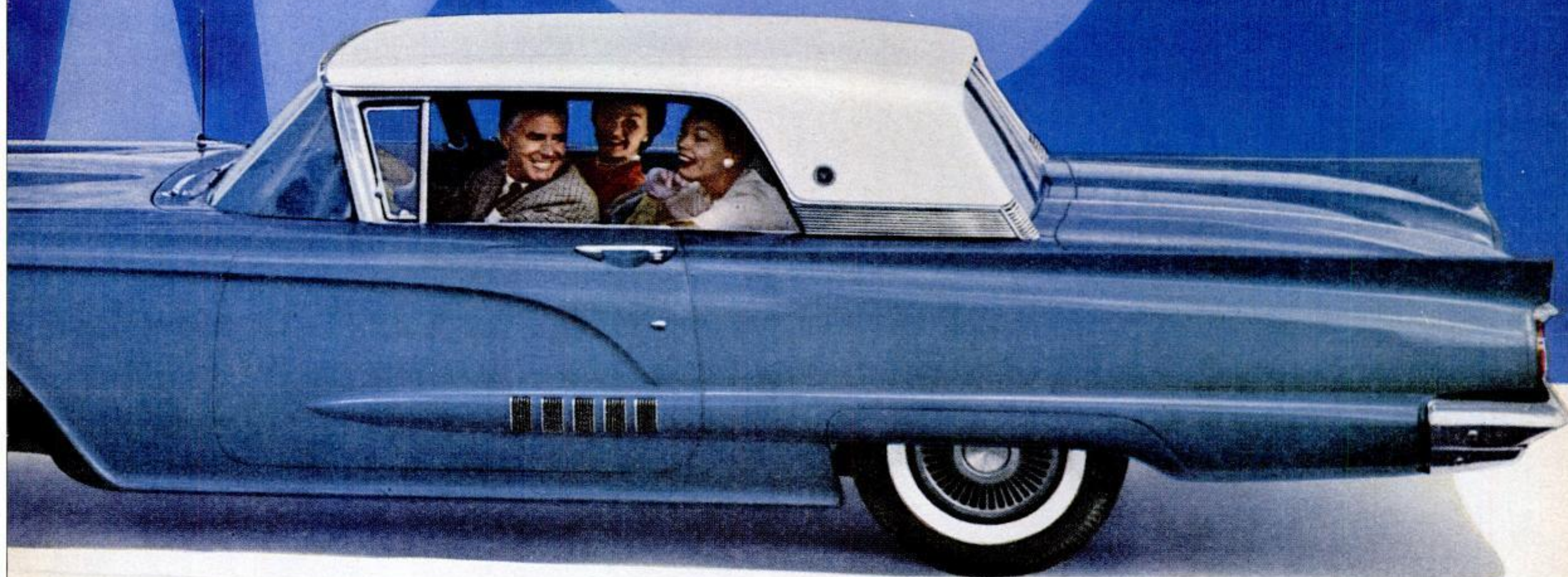


Everything we do begins with you

1 EDSSEL CORSAIR 4-DOOR HARDTOP 2 MERCURY COLONY PARK STATION WAGON
3 FORD FAIRLANE 500 TOWN VICTORIA 4 CONTINENTAL CONVERTIBLE 5 THUNDERBIRD

more new ideas, more **YOU** ideas

MERCURY • LINCOLN • CONTINENTAL MARK III



Our new ideas are **YOU** ideas. Our cars begin with what we know **YOU** want - like a rear seat in the new Thunderbird, the new choice of 4 body styles in the Continental Mark III. Thousands of **YOU** ideas in our 67 models. Which is for you? Ford Motor Company, The American Road, Dearborn, Michigan

- in The Ford Family of Fine Cars



for those who like it **HÖTTER**

Snider's chili-pepper flavor gives food a bright new lift. It heightens your enjoyment but never bites your tongue. Whatever tastes good with catsup tastes better with **Snider's, the Hotter Catsup**

THE TROUBLE WITH THE SLUMP

IT ISN'T YET PRODUCING THE CORRECTIVES OUR ECONOMY WILL BE NEEDING

The trouble with this slump, recession, or whatever it is, is that we aren't getting any good out of it. This may sound insensitive in a month in which nearly a million Americans have joined the unemployed, bringing the total to around four million. But before more join them, a little basic stock-taking is in order.

Discounting White House optimism and Democratic pessimism, most economists agree on the chief causes and cures of the slump. Three causes: 1) business investment in new plant, after years of boom, lost its steam; 2) exports dropped from their phenomenal peak that helped make 1957 look better than it was; 3) manufacturers have been drastically liquidating their inventories. The change in inventories, always a high-leverage factor, has alone sufficed to explain the entire drop in production since 1956. Since this liquidation is now tapering off, the inventory leverage may soon reverse its effect and become a stimulus. Meanwhile credit is easier, bigger defense spending will sooner or later offset slack corporate investment, and things look fairly good—*provided* consumer demand remains stable.

So far, it has. Indeed "stability" is becoming the boast of our new American economy, even in its ups and downs. This, our third slump since World War II, may prove even milder than '49 or '53. The President rightly made a reassuring point of "stability" in his recent economic report. As he pointed out, demand is sustained by such "built-in stabilizers" as unemployment insurance and social security, while production is made stabler by better forecasting and long-range planning. It's certainly a big improvement over old-time feast-or-famine capitalism. But it doesn't mean we have solved the economic problem. The passive political processes of a welfare state, however dedicated to full employment and free enterprise, can be just as troublesome for the long run as was Adam Smith's "unseen hand" of self-regulation for the short.

Take this slump so far: it has conspicuously failed to solve or even check the problem of built-in inflation. Our consumer price level, pointed upward ever since World War II, is still at its all-time high. Why? Do you know of any real shortages that could keep it there? The National Association of Purchasing Agents can't find any. There is certainly no labor shortage at the moment. We are suffering a slump without getting any of its usual silver-lining byproducts, which are (or should be) lower prices, corrective shifts in the allocation of resources, and consequently improved efficiency. What the hell kind of a slump is that?

The loudest cry for lower prices came last week from Walter Reuther. On him it's not attractive. His Detroit, with 200,000 unemployed, raised its new car prices 11.5% in November, giving the price index its biggest single push in that month. And the biggest single push in this price increase was higher wage costs, higher than the rise in productivity. Now Reuther is asking for another big increase, plus a share of the profits. This would keep the auto industry a prime example of "cost-push" inflation, even when unemployment is rising and the demand for cars is slack.

In such circumstances the classic argument for higher wages—that they increase purchasing power in the form of what Reuther calls "high-velocity dollars"—loses all claim to generality. There are too many other people who need the dollars more and would spend them faster than Reuther's boys. Among these are the millions on fixed, non-escalated

incomes whose real purchasing power goes down every time Reuther's wage hikes raise the price of cars.

Reuther does not set the price of cars, nor are wages their only factor. Management is also to blame. G.M.'s President Harlow Curtice disclosed to the Kefauver Committee last week he just does not believe in price reduction as a new-car sales weapon. Neither, for steel selling, does Chairman Roger Blough of U.S. Steel. Does "stability" really make price-cutting obsolete? Having cut back production while nevertheless building inventories, the auto men complain that they need a fresh dose of public confidence. (Curtice wants a tax cut right away.) That is not so easy as it sounds. Whatever the public may think of cars that get bigger and costlier every year, it is surely entitled to withhold confidence from a price policy that seems to place its own confidence in continuing inflation.

In a slump one of management's first duties is to find the price at which sales, production and employment can be profitably maintained. Some industries (especially retailers) have made the effort; some (the raw material producers) have had no choice; but some of our most efficient mass-production, automated industries have shown little flexibility or none at all. This loss of flexibility may be more ominous for the long run than the temporary unemployment to which it contributes. True "stability," the only kind appropriate to the free, competitive economy, depends on flexibility in all its parts.

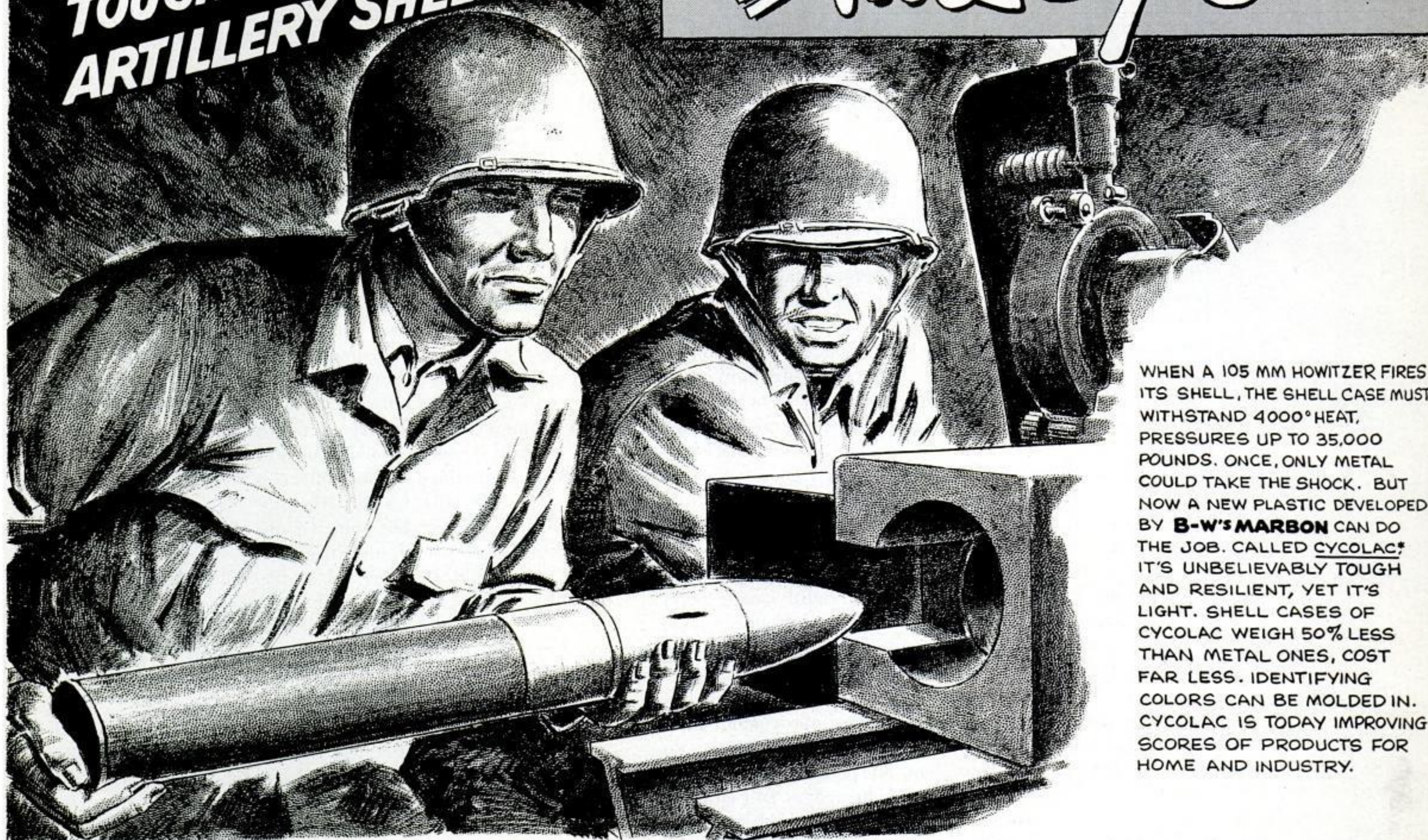
Besides wages and prices, there is a third area that needs more flexibility: foreign trade. Why did our exports fall so abruptly last year? Partly at least because our imports remained so stable they did not yield foreigners enough dollars to keep up their trade expansion. The many other cogent reasons, both political and economic, for a more generous U.S. import policy have been recited before on this page, and will be again. Here let us add merely that more imports would be a useful weapon against our inflation, as well as against monopoly and sluggishness.

Last week the President asked for a five-year extension of the Reciprocal Trade Act, which he needs for continuity of the U.S. effort toward freer world trade. He will meet tire-some opposition from old and new protectionists, many of them using the unemployment figures as an argument. We face another nasty conflict between the long-term needs of the whole economy and short-term, shortsighted local interests. To resist unions, to disturb frozen markets, to fight protectionism—these are all politically uphill fights. But they need fighters now if our economy is to remain limber, efficient and responsive to its coming opportunities.

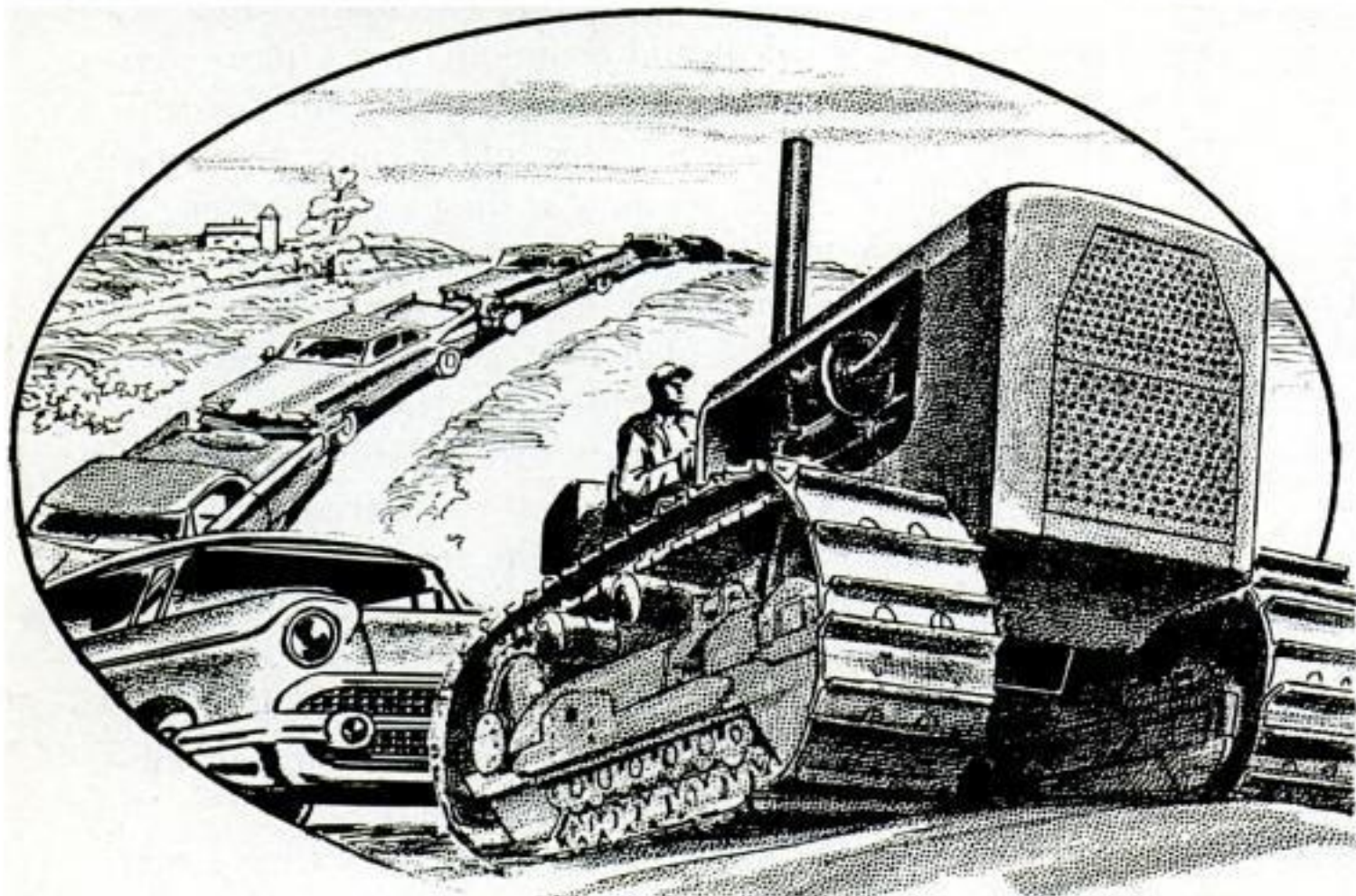
As to these, they are almost unlimited. Every time a new projection is made of the probable future demands on the U.S. economy, it is more breathtaking than the last. The current ARCHITECTURAL FORUM, for example, foresees a \$600 billion market for all kinds of construction in the next decade—more than the value of all existing private structures put together. To meet such demands, at home and abroad, will place a continuous strain on all our resources, including labor, and require the most efficient use of them we can possibly manage. This slump is a testing time of our capacity to maintain the steady progress in efficiency which has made the U.S. economy so opulent. If instead we nurse obsolete fears and hide in crumbling fox holes, we will miss our own future.

**NOW-PLASTIC
TOUGH ENOUGH FOR
ARTILLERY SHELLS!**

Ripley's

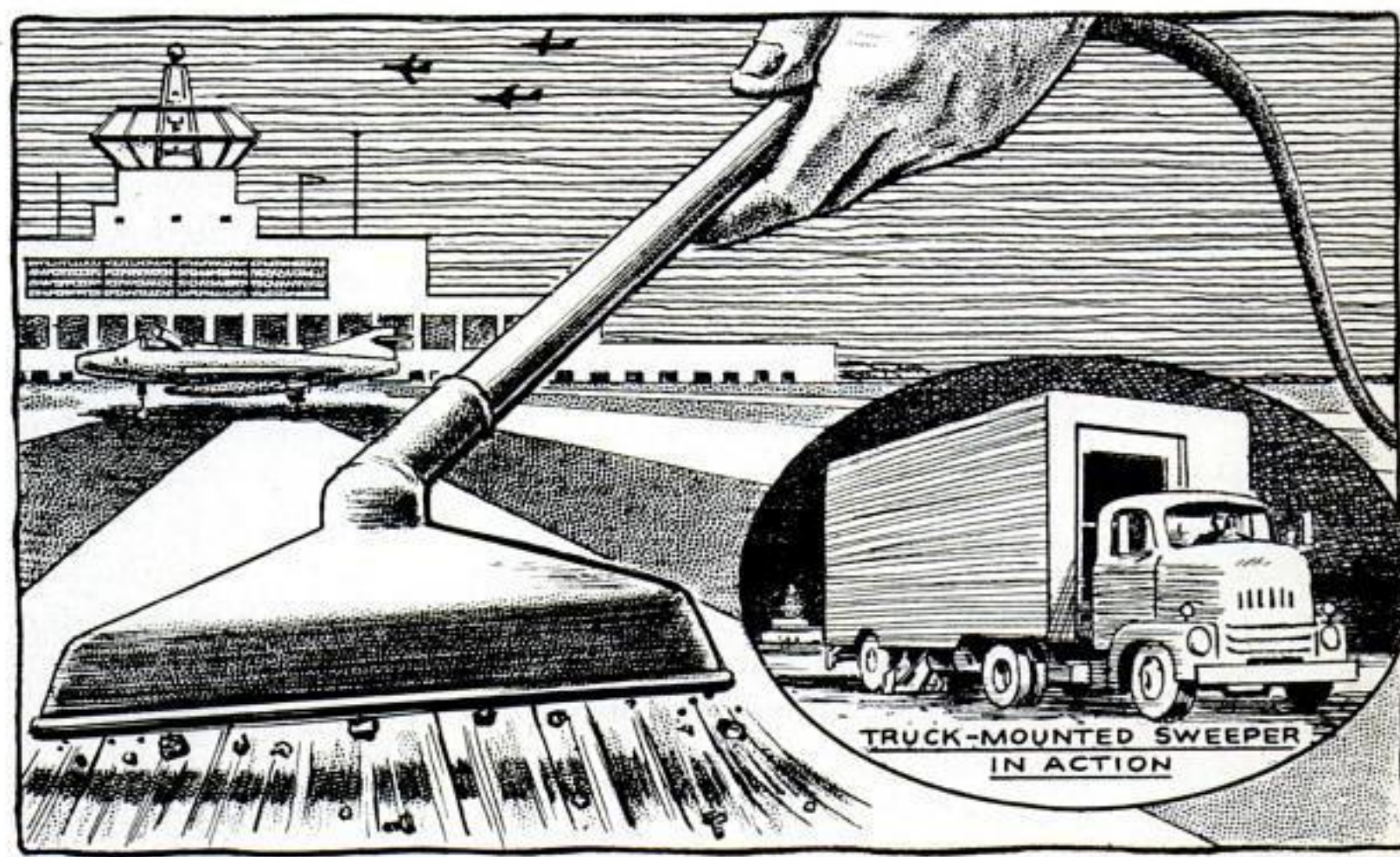


WHEN A 105 MM HOWITZER FIRES ITS SHELL, THE SHELL CASE MUST WITHSTAND 4000° HEAT, PRESSURES UP TO 35,000 POUNDS. ONCE, ONLY METAL COULD TAKE THE SHOCK. BUT NOW A NEW PLASTIC DEVELOPED BY **B-W'S MARBON** CAN DO THE JOB. CALLED **CYCOLAC**, IT'S UNBELIEVABLY TOUGH AND RESILIENT, YET IT'S LIGHT. SHELL CASES OF CYCOLAC WEIGH 50% LESS THAN METAL ONES, COST FAR LESS. IDENTIFYING COLORS CAN BE MOLDED IN. CYCOLAC IS TODAY IMPROVING SCORES OF PRODUCTS FOR HOME AND INDUSTRY.



SINGLE-ENGINE TRACTOR TOWS 6 MILES OF AUTOMOBILES!

MOST POWERFUL CRAWLER OF ITS TYPE, IT CAN TOW OVER 1750 CARS OR PULL GREAT EARTH MOVERS. TO STAND THE STRAIN ON ROUGH GROUND, THE DRIVE-SHAFT MUST "BEND". A DOUBLE-JOINTED STEEL "ELBOW" FROM **B-W'S MECHANICS UNIVERSAL JOINT** LETS IT FLEX IN ANY DIRECTION. IT ABSORBS SHOCKS, PROTECTS OTHER PARTS.



25-TON VACUUM CLEANER SUCKS UP JET-DAMAGING DEBRIS!

ROARING DOWN RUNWAYS, THIS GIANT VACUUM SWEEPS THEM CLEAN. IT PICKS UP ANYTHING JET ENGINES MIGHT DRAW IN -- PEBBLES TO LOST WRENCHES. THE HUGE FAN THAT CREATES THIS POWERFUL SUCTION IS WHIRLED BY SPECIAL CHAIN DRIVES LINKED TO A 600-HP. ENGINE. MADE BY **B-W'S MORSE CHAIN**, THEY TAKE THE LOAD AND HIGH SPEED AS THE FAN DEVELOPS AIR VELOCITY 6 TIMES THAT OF A HURRICANE.

**DESIGN IT BETTER
...MAKE IT BETTER**

Borg-Warner®

Believe It or Not!



NOW WASHDAY HAPPENS WHILE YOU SLEEP! THE NEWEST **TIMELINE*** WASHER FROM **B-W's NORGE** TURNS ITSELF ON, DOES THE WASH WHEN YOU'RE ASLEEP --OR ANY TIME YOU CHOOSE. JUST PUT IN THE CLOTHES AND SET A DIAL. IT CAN MEAN AN "EARLY START" ON YOUR DAY, MORE HOT WATER AT RUSH HOURS, EXTRA TIME FOR YOURSELF. IT'S ONE MORE ADVANTAGE THAT MAKES NORGE A HOMEMAKER'S BEST HELPER.



Borg-Warner for over 25 years has been serving the field of aviation with vital operating parts. These include:

- Fuel pumps
- Electronic sensing devices for missiles
- Aircraft frame structures
- Universal joints
- Carburetors
- Boosters for guided missiles
- Hydraulic systems

Borg-Warner skill and ingenuity also benefit almost every American every day through many other fields, including:

Automotive. 19 of the 20 makes of cars contain essential B-W parts.

Nucleonics. B-W designed parts are at work in almost every U.S. reactor.

Farm. 9 out of 10 modern farms use B-W equipped machines.

Home. Millions of homes use B-W building materials, equipment, appliances.

Oil. Every oil field has B-W equipment.

TODAY TOO FEW PROFESSORS CAN AFFORD TO CONTINUE TEACHING!

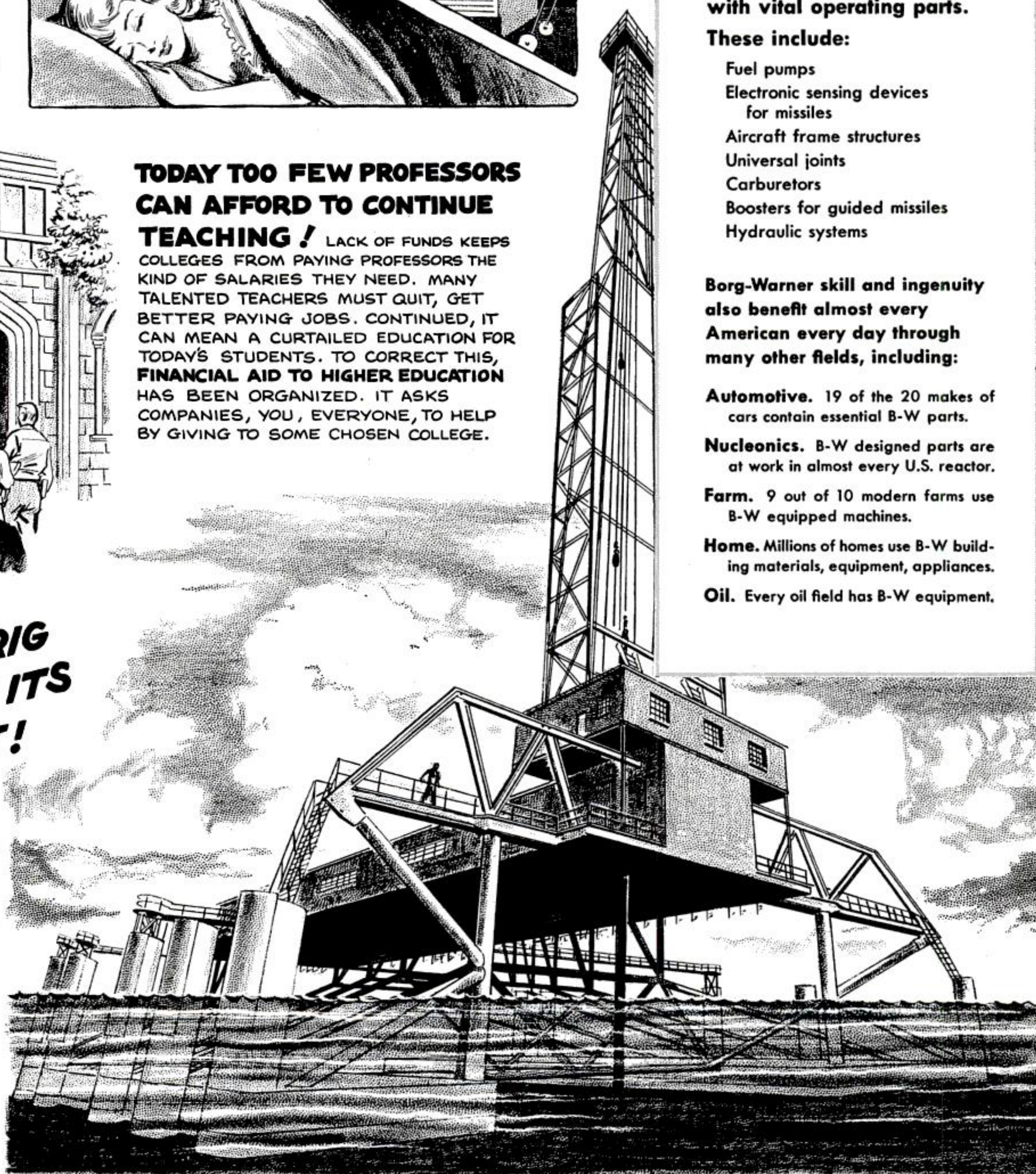
LACK OF FUNDS KEEPS COLLEGES FROM PAYING PROFESSORS THE KIND OF SALARIES THEY NEED. MANY TALENTED TEACHERS MUST QUIT, GET BETTER PAYING JOBS. CONTINUED, IT CAN MEAN A CURTAILED EDUCATION FOR TODAY'S STUDENTS. TO CORRECT THIS, **FINANCIAL AID TO HIGHER EDUCATION** HAS BEEN ORGANIZED. IT ASKS COMPANIES, YOU, EVERYONE, TO HELP BY GIVING TO SOME CHOSEN COLLEGE.



FLOATING OIL RIG CAN STAND ON ITS OWN TWO FEET!

FLOATED TO THE DRILLING SITE, IT PUTS DOWN BIG "FEET"... STANDS ON THE BOTTOM STEADY AS AN ISLAND. WORKING UNDER WATER MILES FROM SHORE CALLS FOR DRILLING EQUIPMENT THAT IS RUGGED AND VERSATILE. SO ALL HANDLING AND POSITIONING OF DRILLS AND CASINGS IS DONE WITH EQUIPMENT MADE BY **B-W's BYRON JACKSON** -- FROM THE LIFT HOOK THAT CAN SUPPORT 500 TONS OF CASINGS TO HUGE WRENCHES THAT COUPLE DRILL PIPE OR CASINGS FAST AND SPEED THE JOB.

*Trade Mark Reg. U. S. Pat. Off.



These units form **BORG-WARNER**, Executive Offices, 310 S. Michigan Ave., Chicago • Research Center, Des Plaines, Ill. **DIVISIONS:** ATKINS SAW • BORG & BECK • BYRON JACKSON • CALUMET STEEL • FRANKLIN STEEL • INGERSOLL CONDITIONED AIR • INGERSOLL HUMPHRIES • INGERSOLL KALAMAZOO • INGERSOLL PRODUCTS • INGERSOLL STEEL • LONG MANUFACTURING • MARBON CHEMICAL • MARVEL-SCHUEBLER PRODUCTS • MECHANICS UNIVERSAL JOINT • NORGE • PESCO PRODUCTS • PRIMOR PRODUCTS • ROCKFORD CLUTCH • SPRING DIVISION • WARNER AUTOMOTIVE • WARNER GEAR • WOOSTER DIVISION • YORK. **SUBSIDIARIES:** B-W ACCEPTANCE CORP. • BORG-WARNER INTERNATIONAL • BORG-WARNER, LTD. • BORG-WARNER SERVICE PARTS • BYRON JACKSON OF CANADA, LTD. • BYRON JACKSON CO., S. A. • BJ SERVICE, INC. • CELLO PRODUCTS, LTD. • LONG MFG., LTD. • MORSE CHAIN • MORSE CHAIN OF CANADA, LTD. • REFLECTAL • WARNER GEAR, LTD. • WESTON HYDRAULICS, LTD. • YORK SHIPLEY, LTD.

A LOOK AT THE WORLD'S WEEK



A MEMORABLE LAUGH NOBODY REMEMBERS

Such a big laugh, shared with the President, surely was an experience none of these top-ranking Republicans would forget. They were in the Chicago Amphitheater, where President Eisenhower was to kick off the 1958 Republican campaign. The President laughed out loud. Illinois' Senator Everett Dirksen (*second from right*) bellowed. Governor William Stratton of Illinois (*second from left*) managed to hold his mirth to a chuckle, but Meade Alcorn (*left*), Republican National Chairman, gave a loud guffaw. What caused the big laugh? Alcorn, Stratton, Dirksen, and Press Secretary James Hagerty, speaking for the President, were all asked a few days later but none of them could remember what had been said that almost fractured their funnybones.

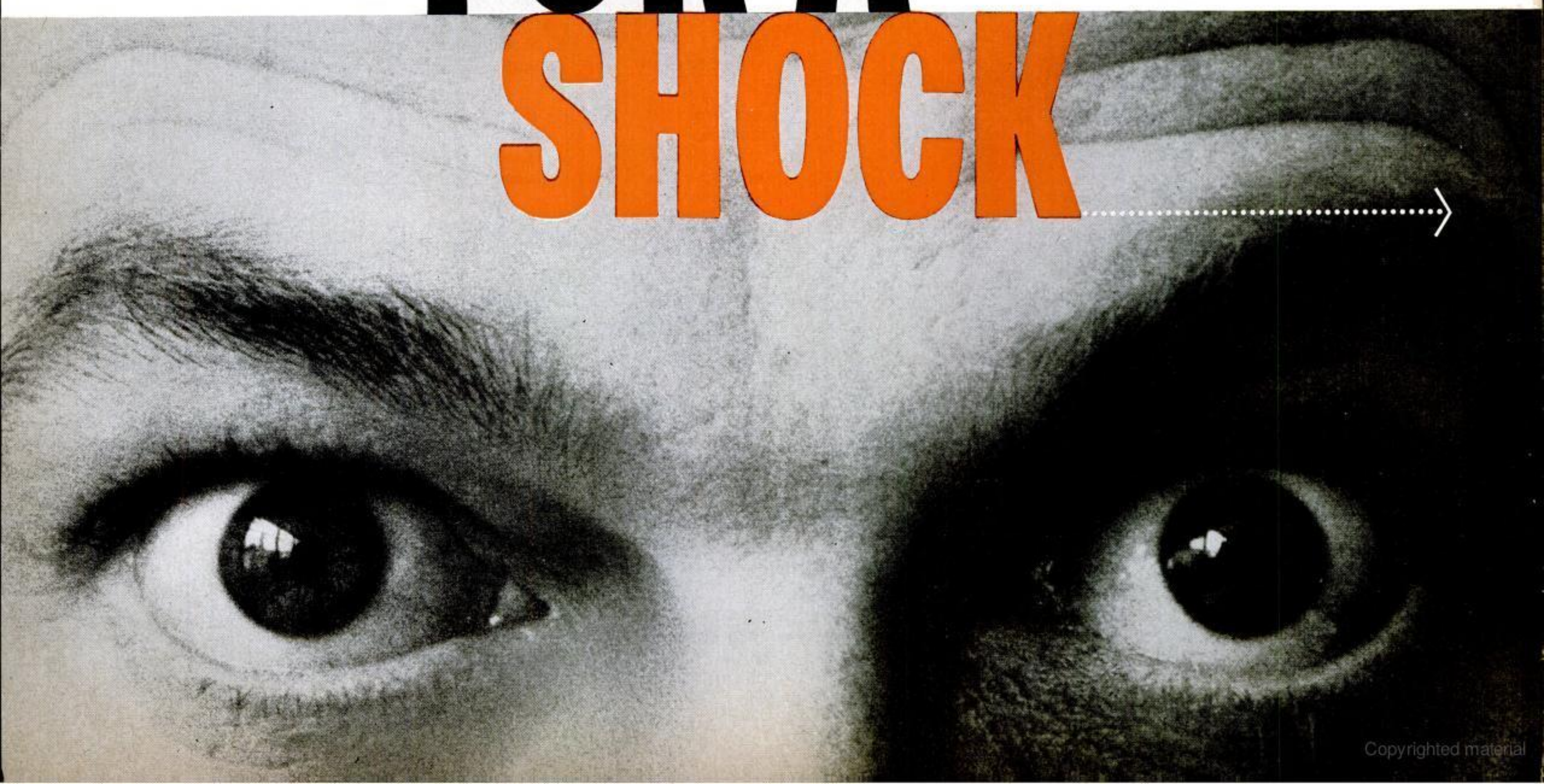
TOO SHORT STRETCH TO REACH POOCH

Hanging onto a rope, an S.P.C.A. agent, Edward Jones, stretched himself across the flood-swollen waters of the Delaware River at Trenton, N.J. and strained to reach a stranded dog. A passing motorist heard the animal howling and called the police. Jones was lowered down a 10-foot seawall. His reach was not long enough to get the dog but, clambering back, he made a lasso, tossed it expertly and hauled the dog to safety. The story brought the dog so much attention that half a dozen people asked to adopt him.

CONTINUED

*if you consider yourself
a careful driver...*

**PREPARE
YOURSELF
FOR A
SHOCK**

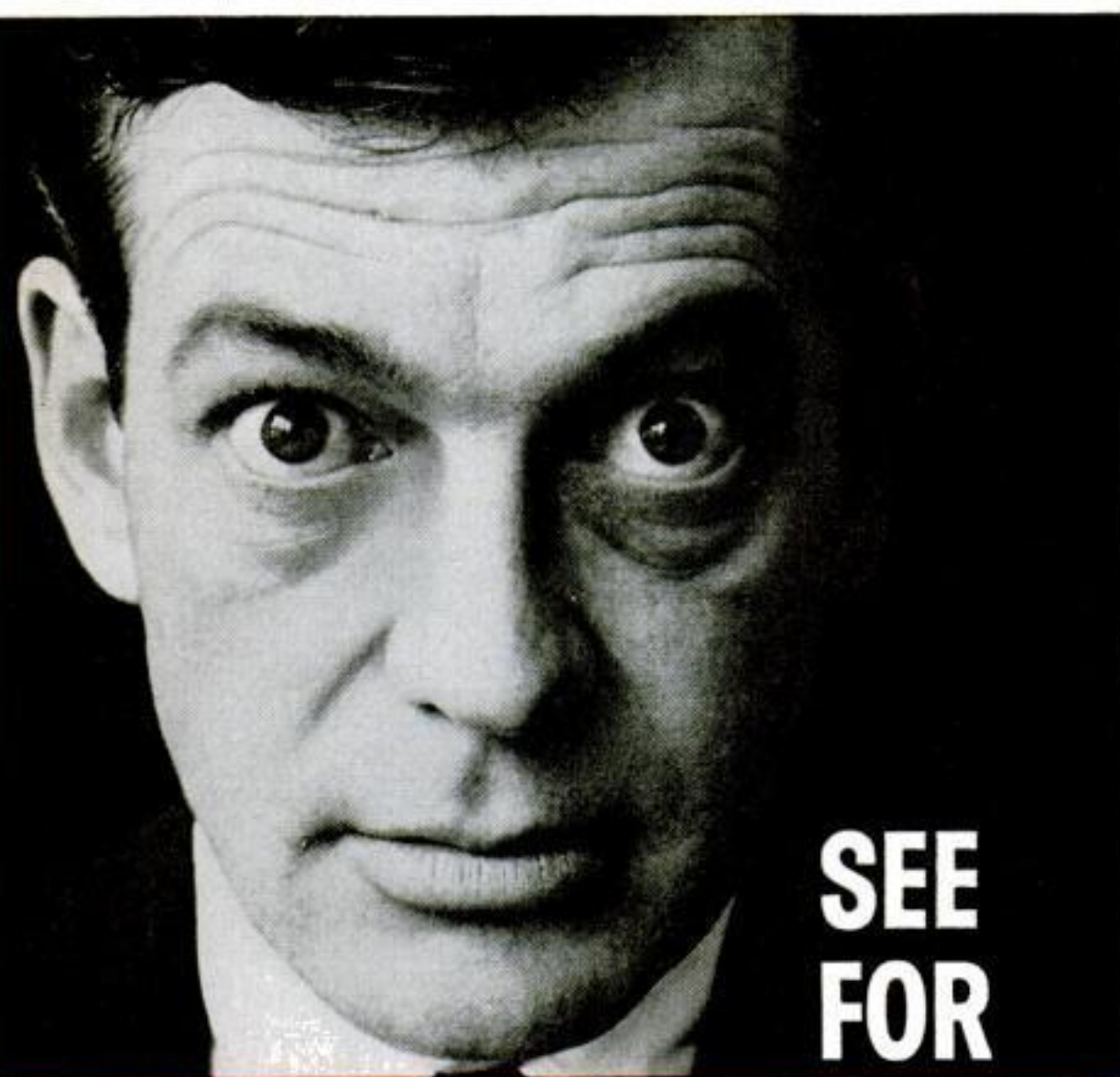


YOU MAY BE PAYING YOUR AUTOMOBILE

... that's a stiff price to pay every year for not knowing

1. All auto insurance companies do not charge the same.
2. State Farm Mutual, the Careful Driver Insurance Company, charges far lower rates than most other companies.

State Farm is built on the idea that the careful driver deserves a break. That's why we aim to insure *only* careful drivers, and not the reckless and irresponsible few who keep auto insurance rates high. The proof that this idea works is right here on this page: car for car and state for state, State Farm policyholders enjoy rates that are lower than those being charged by most other companies.



SEE
FOR

YOURSELF

These figures represent the difference between the annual renewal costs with State Farm ... and the rates charged by most other companies. They are based on full coverage* on a 1957 Ford Custom 300, 4-door sedan. Look at the range of savings present State Farm policyholders enjoy in *your* state! And remember: these are typical savings, in a few towns selected at random. In many areas, our policyholders save even more!

When you take out a State Farm coverage for the first time, you pay a membership fee. This covers initial costs, which most companies charge again and again as part of the premium. *With State Farm, you never have to pay a fee on this coverage again.* Once a State Farm member, you may enjoy the kind of savings shown here, year after year.

How much can you save with State Farm? It depends on where you live, the kind of car you drive, etc. Your nearby State Farm agent can tell you quickly. Call him *today!*

*Bodily Injury and Property Damage Liability (limits: \$10,000, \$20,000 and \$5,000); Medical Payments (limit: \$500); Comprehensive; and \$50 Deductible Collision Coverage. Please use only. No male driver under age 25.



Compared to the rates charged by most other companies,

IF YOU LIVE IN	SAVINGS† WITH STATE FARM	IF YOU LIVE IN	SAVINGS† WITH STATE FARM
ALABAMA		GEORGIA	
BIRMINGHAM	you may save \$19.80 to \$36.60	ATLANTA	you may save \$24.40 to \$42.20
MOBILE	30.20 to 49.00	SAVANNAH	28.40 to 47.20
MONTGOMERY	34.20 to 53.00	VALDOSTA	34.40 to 48.80
ARIZONA		IDAHO	
PHOENIX	you may save 43.40 to 68.20	BOISE	you may save 44.20 to 58.60
TUCSON	48.60 to 73.40	REST OF STATE	39.40 to 52.60
REST OF STATE	38.00 to 56.00	ILLINOIS	
ARKANSAS		CENTRALIA	you may save 27.40 to 45.20
ENTIRE STATE	you may save 27.00 to 43.60	CHICAGO	46.00 to 83.40
CALIFORNIA		PEORIA	14.80 to 32.60
LOS ANGELES	you may save 31.60 to 59.60	INDIANA	
MERCED	43.00 to 63.20	EVANSVILLE	you may save 20.00 to 36.40
SACRAMENTO	32.00 to 56.60	INDIANAPOLIS	23.40 to 40.80
COLORADO		VALPARAISO	23.40 to 37.60
COLORADO SPRINGS	you may save 32.20 to 43.20	IOWA	
DENVER	20.00 to 33.00	CLINTON	you may save 28.20 to 44.60
REST OF STATE	26.20 to 35.00	DES MOINES	26.60 to 45.20
DELAWARE		SIOUX CITY	37.40 to 55.20
WILMINGTON	you may save 26.80 to 43.20	KANSAS	
REST OF STATE	29.20 to 43.40	KANSAS CITY	you may save 24.80 to 45.00
FLORIDA		TOPEKA	21.00 to 37.60
JACKSONVILLE	you may save 24.60 to 46.80	WICHITA	33.60 to 47.80
MIAMI	42.60 to 77.60	KENTUCKY	
ORLANDO	30.80 to 51.00	ASHLAND	you may save 54.20 to 75.00
		LOUISVILLE	34.80 to 61.60
		PADUCAH	29.60 to 50.40

\$32 TOO MUCH FOR INSURANCE!

In some areas, as high as \$108 too much!

these two facts:

Can You Qualify? Very likely—8 out of 10 average drivers can. Your good driving record can earn you a lower rate . . . plus the finest protection and fast "hometown" claim service. No other company can match State Farm's coast-to-coast network of 9,000 full-time agents and claim representatives. Check the savings below, enjoyed by present State Farm policyholders in over 100 representative cities. In many other towns, savings are even greater. Better call your nearby State Farm agent about becoming a member, right now. His name is listed in the Yellow Pages of your local telephone book.

STATE FARM MUTUAL
AUTOMOBILE INSURANCE COMPANY
WORLD'S LARGEST



HOME OFFICE: BLOOMINGTON, ILLINOIS

CAREFUL DRIVERS INSURE FOR LESS WITH STATE FARM. HERE ARE TYPICAL SAVINGS:

IF YOU LIVE IN	SAVINGS† WITH STATE FARM	IF YOU LIVE IN	SAVINGS† WITH STATE FARM	IF YOU LIVE IN	SAVINGS† WITH STATE FARM	IF YOU LIVE IN	SAVINGS† WITH STATE FARM
LOUISIANA BATON ROUGE NATCHITOCHES NEW ORLEANS	you may save \$32.80 to \$39.40 33.60 to 38.00 30.80 to 36.40	NEBRASKA LINCOLN OMAHA REST OF STATE	you may save \$39.80 to \$59.80 40.60 to 61.60 31.40 to 41.40	OKLAHOMA ENID OKLAHOMA CITY TULSA	you may save \$21.30 28.60 to 39.10 43.20 to 52.70	UTAH OGDEN SALT LAKE CITY REST OF STATE	you may save \$48.40 to \$66.00 34.40 to 52.00 45.80 to 61.20
MARYLAND BALTIMORE HAGERSTOWN SALISBURY	you may save 45.60 to 79.20 31.40 to 50.40 32.60 to 51.60	NEVADA ENTIRE STATE	you may save 63.20 to 83.40	OREGON KLAMATH FALLS PENDLETON PORTLAND	you may save 18.60 to 35.20 28.40 to 45.00 14.40 to 43.40	VIRGINIA CHARLOTTESVILLE NORFOLK RICHMOND	you may save 26.80 to 28.00 28.80 to 29.60 28.20 to 29.10
MICHIGAN BAY CITY DETROIT KALAMAZOO	you may save 36.40 to 56.20 32.00 to 52.60 26.60 to 44.00	NEW JERSEY ATLANTIC CITY ELIZABETH TRENTON	you may save 29.60 to 65.60 24.60 to 48.00 20.80 to 44.20	PENNSYLVANIA ERIE JOHNSTOWN PHILADELPHIA	you may save 34.00 to 52.80 36.60 to 58.80 66.80 to 108.20	WASHINGTON SEATTLE SPOKANE WALLA WALLA	you may save 29.80 to 57.60 24.40 to 45.40 26.20 to 41.60
MINNESOTA DULUTH MINNEAPOLIS, ST. PAUL ROCHESTER	you may save 49.20 to 75.80 34.20 to 64.80 40.80 to 58.80	NEW MEXICO ALBUQUERQUE REST OF STATE	you may save 34.00 to 51.80 35.40 to 48.80	SOUTH CAROLINA CHARLESTON COLUMBIA GREENVILLE	you may save 30.00 to 59.20 17.40 to 35.20 10.60 to 28.40	WEST VIRGINIA HUNTINGTON MORGANTOWN WHEELING	you may save 58.00 to 80.20 57.40 to 77.40 47.20 to 69.40
MISSISSIPPI JACKSON PASCAGOULA TUPELO	you may save 20.60 to 42.00 22.40 to 43.80 16.60 to 38.00	NEW YORK ALBANY BUFFALO ELMIRA	you may save 46.20 to 87.40 44.80 to 81.00 45.20 to 75.80	TENNESSEE CHATTANOOGA KNOXVILLE MEMPHIS	you may save 28.00 to 60.40 22.00 to 49.80 13.80 to 37.20	WISCONSIN MADISON MILWAUKEE SUPERIOR	you may save 23.40 to 46.80 29.20 to 61.80 34.60 to 67.60
MISSOURI JOPLIN ST. JOSEPH ST. LOUIS	you may save 48.20 to 69.60 19.60 to 41.00 44.00 to 81.20	NORTH CAROLINA ENTIRE STATE	you may save 23.90 to 26.00	TEXAS	**	WYOMING CASPER, CHEYENNE REST OF STATE	you may save 46.80 to 57.80 40.20 to 49.00
MONTANA BILLINGS BUTTE KALISPELL	you may save 45.80 to 61.20 41.60 to 57.00 43.20 to 54.40	NORTH DAKOTA FARGO REST OF STATE	you may save 35.60 to 46.80 31.20 to 41.20	SOUTH DAKOTA SIOUX FALLS REST OF STATE	you may save 35.20 to 47.20 33.20 to 42.00	DIST. OF COLUMBIA WASHINGTON	you may save 40.00 to 68.00
		OHIO CLEVELAND COLUMBUS PORTSMOUTH	you may save 35.20 to 63.00 22.00 to 46.40 47.60 to 72.00				

†Savings comparisons are based on rates in effect January 1, 1958.

**In Texas, savings have always been returned to members in the form of dividends. These dividends have been paid for over 20 years. They have always been substantial.

Undercover Strategy

begins with Skippies

by
formfit

When you'd like to be the Queen of Hearts . . . and look the way he dreams of you . . . your Strategy just naturally starts with Formfit. For only Formfit figures in this softly feminine manner . . . revealing the very loveliest you. At fine stores everywhere.



Formfit Skippies and "Confidential" Bras are available in handy pick-up packages.



Pretty figure planning . . . Skippies Pantie No. 843 (also available as Girdle No. 943). Wisp-weight Nylon elastic net with satin elastic panels front and back. 2½-in. waistband. S.M.L. \$7.50. Ex. L. \$7.95. Shown with "Confidential" Bra No. 281, contoured with wispy-thin foam lining. \$3.00 and \$3.50

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AT A HARMONIOUS MEETING

Top delegates to the Baghdad Pact conference enjoyed a reception in Ankara. Left to right: Dr. Manouchehr Eghbal, prime minister of Iran; President Celal Bayar of Turkey; Secretary Dulles; Adnan Menderes, Turkish prime minister; Nuri al Said, former premier of Iraq. Since



LOAD OF RAILROAD BRASS

In Washington's Union Station one of the biggest loads of railroad brass ever assembled loaded themselves aboard a baggage truck as the Association of American Railroads held a meeting of its directors. In front, left to right: Daniel P. Loomis, president of the Association of American Railroads; Harry C. Murphy, president of the Burlington; Fred Gurley, chairman of the Atchison, Topeka and Santa Fe; Donald J. Russell, president of Southern Pacific; Lynne White, chairman, New



AN IMPORTANT STEP BY U.S.

the U.S. is not a pact member, Dulles came as an observer. But his presence and his pledge that a Communist attack against any member would be met with American "mobile power of great force" put the U.S. as close to joining as it could be without actually signing up.



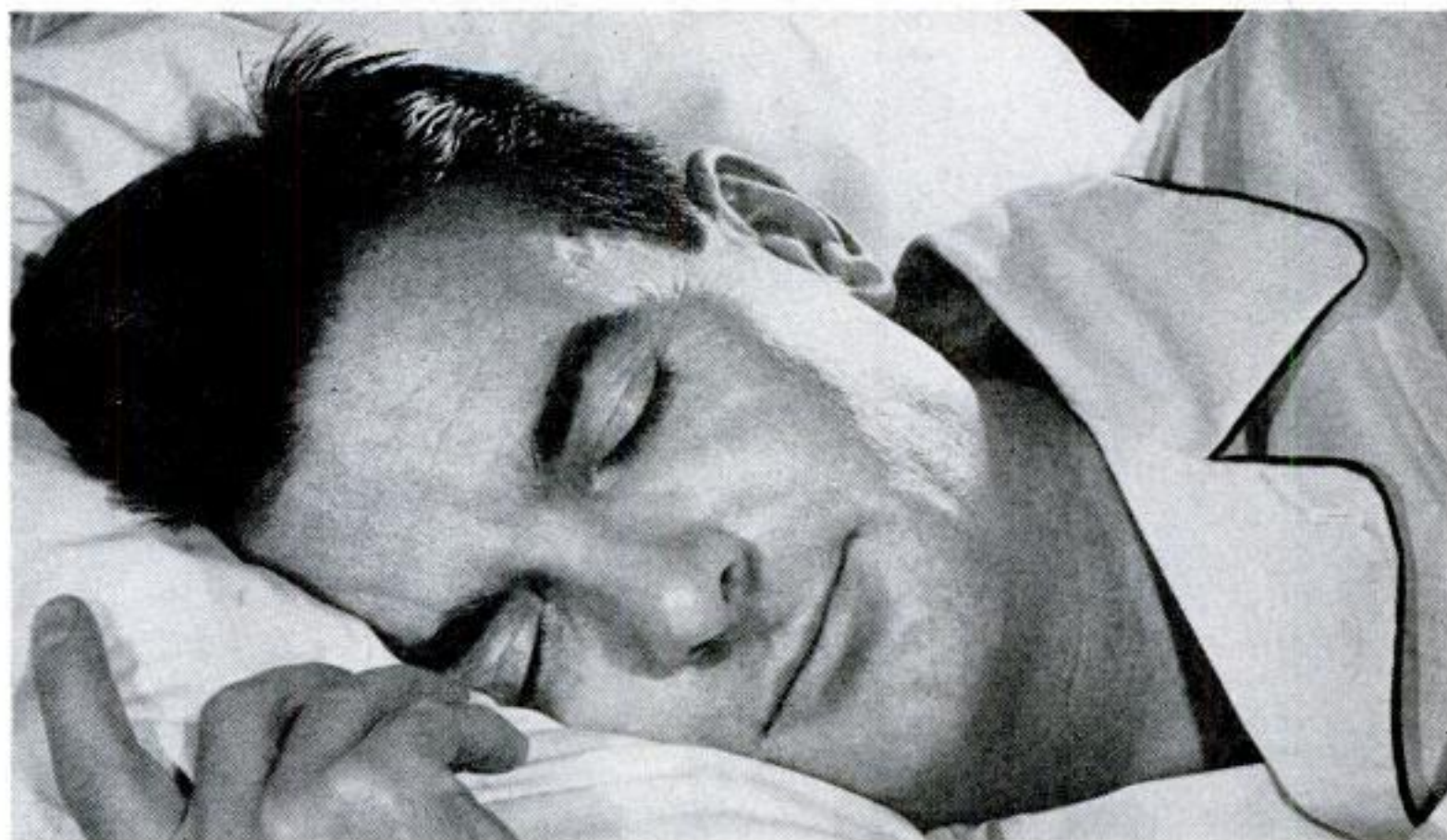
ABOARD A BAGGAGE TRUCK

York, Chicago and St. Louis; Russell Dearmont, president of the Missouri Pacific; Walter Tuohy, president of C&O; Patrick McGinnis, president of Boston and Maine; William Faricy, chairman of the Association of American Railroads; Howard Simpson, president of B&O. Standing on cart: Ben Heineman, chairman of Chicago and North Western; Wayne Johnston, president of Illinois Central; W. Thomas Rice, president of Atlantic Coast Line; Harry Von Willer, president of Erie.

Can't Sleep? Take SOMINEX!



NOW! 100% SAFE SLEEP*



You can sleep soundly tonight... safely!
Try SOMINEX, the new sleeping aid
that contains no narcotics.

If you sometimes can't sleep because of simple nervousness due to over-work or restlessness... try SOMINEX, the new aid to sleep that, taken as directed, helps you sleep soundly with 100% safety. SOMINEX contains *no* narcotics, *no* barbiturates, *no* bromides. And it's *non-habit forming*. SOMINEX's special combination of ingredients helps calm down jittery nerves, helps you feel more relaxed. In the morning you wake up refreshed without "morning-after" grogginess. No prescription needed. Money back guarantee.

**Taken as directed*



Sominex

AFTER FLU... COLD, SORE THROAT

You may feel run-down because of

TIRED BLOOD*

Feel Stronger Fast

within 7 days — or money back!

AFTER THE FLU, cold or sore throat, you may feel weak and run-down because of iron deficiency anemia*. Or, as we call it, Tired Blood. At such a time, GERITOL can help you win back your strength *faster*. For GERITOL is an iron-rich tonic of therapeutic potency. In just 24 hours GERITOL-iron is in your bloodstream carrying *strength* and

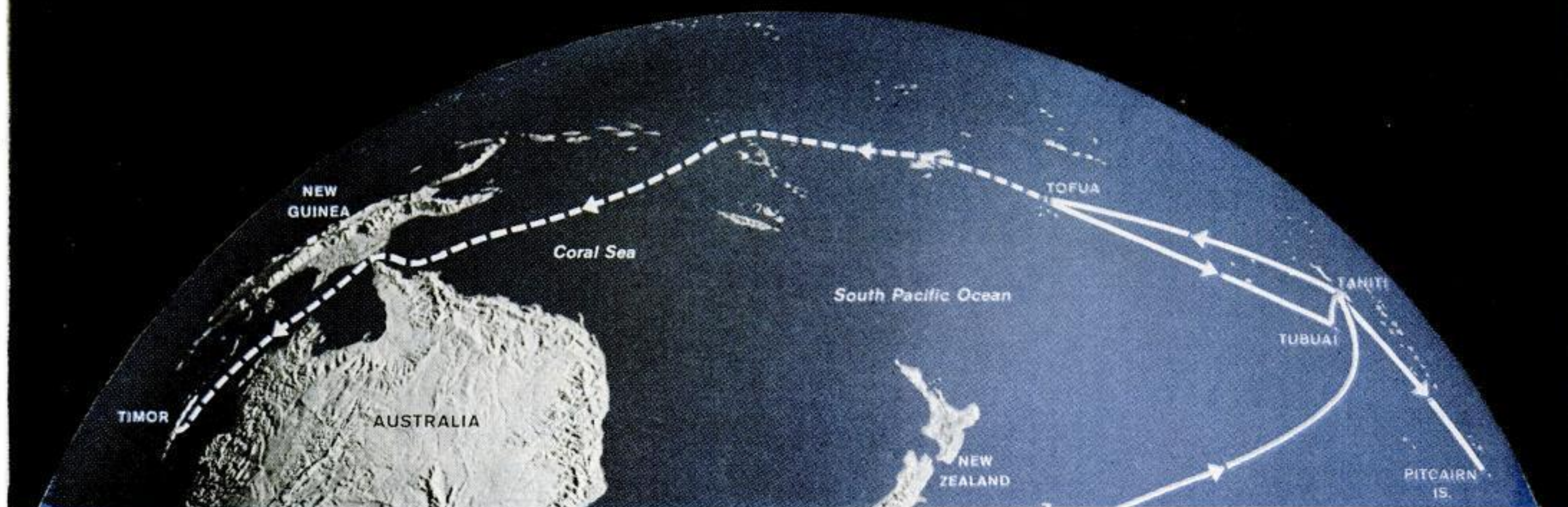
energy to *every* part of your body. Check with your doctor. And, after a winter illness, if Tired Blood is your problem—take GERITOL *every* day. Take the liquid or tablets. You'll feel stronger fast, within seven days or your money back.

Save \$1.00
Buy Economy Size!

GERITOL



TABLETS LIQUID



THE FAMOUS ROUTES of the merchant ship *Bounty* (solid line) and of Captain William Bligh's open boat (dotted line) are shown on global view of South Pacific. Outbound from England, *Bounty* rounded New Zealand in 1778, went to Tahiti to take on breadfruit for British colonies in Caribbean. The crew mutinied off Tofua,

dumped Bligh in an open boat with only skimpy food, little water. Without charts he made the journey to Timor in 41 days. Mutineers took *Bounty* to Tubuai, then returned to Tahiti, where some stayed and later were caught by navy. Remaining mutineers inveigled 19 natives to join them and sailed to uninhabited Pitcairn.

THE 'BOUNTY'S' LAST RELICS



THE MUTINY was led by Fletcher Christian (second from right), who helps truss up Bligh as

Seaman John Adams (left) holds gun. Actually Bligh was no sterner than most captains of day.

Divers at Pitcairn Island find mutiny ship's anchor

In the bay of a fabled Pacific island, divers recently raised a last relic of the famous ship *Bounty* and thereby helped round out a story which—in history, novels and movies—has become part of the lore of the sea. Their relic was the anchor the *Bounty's* mutinous crew had dropped 169 years ago off Pitcairn, where they had fled to escape punishment.

A few months before, anxious to return to Tahitian pleasures and goaded by floggings they were given for negligence, the sailors mutinied. They set their formidable captain, William Bligh, adrift—to make his incredible 3,600-mile journey to safety (map, above). Then, with Tahitian women, the crew sailed to Pitcairn, dropped anchor, and burned the ship so it would not betray their hideaway. Nineteen years later a sealer, stopping for water, found the mutineers' families. Only one of the original crew was left—John Adams (below). The others, he said, had been killed in accidents or in fights over women.

Not long ago the U.S. brigantine *Yankee* called at Pitcairn to drop off merchandise the islanders had ordered from America by mail. Four skin-diving crewmen, swimming around the area where the *Bounty* had been burned, came upon its huge anchor. A *National Geographic* photographer who was on the island recorded the raising (opposite page). And nearby he found, embedded in coral, pieces of metal which mark with certainty the *Bounty's* final resting place.



MASTER AND MUTINEER are Bligh (right), who became admiral, and Adams, who outlived other mutineers.

SETTING BLIGH ADRIFT with 18 loyal men in 23-foot boat, mutineers toss down cutlasses and a few supplies.



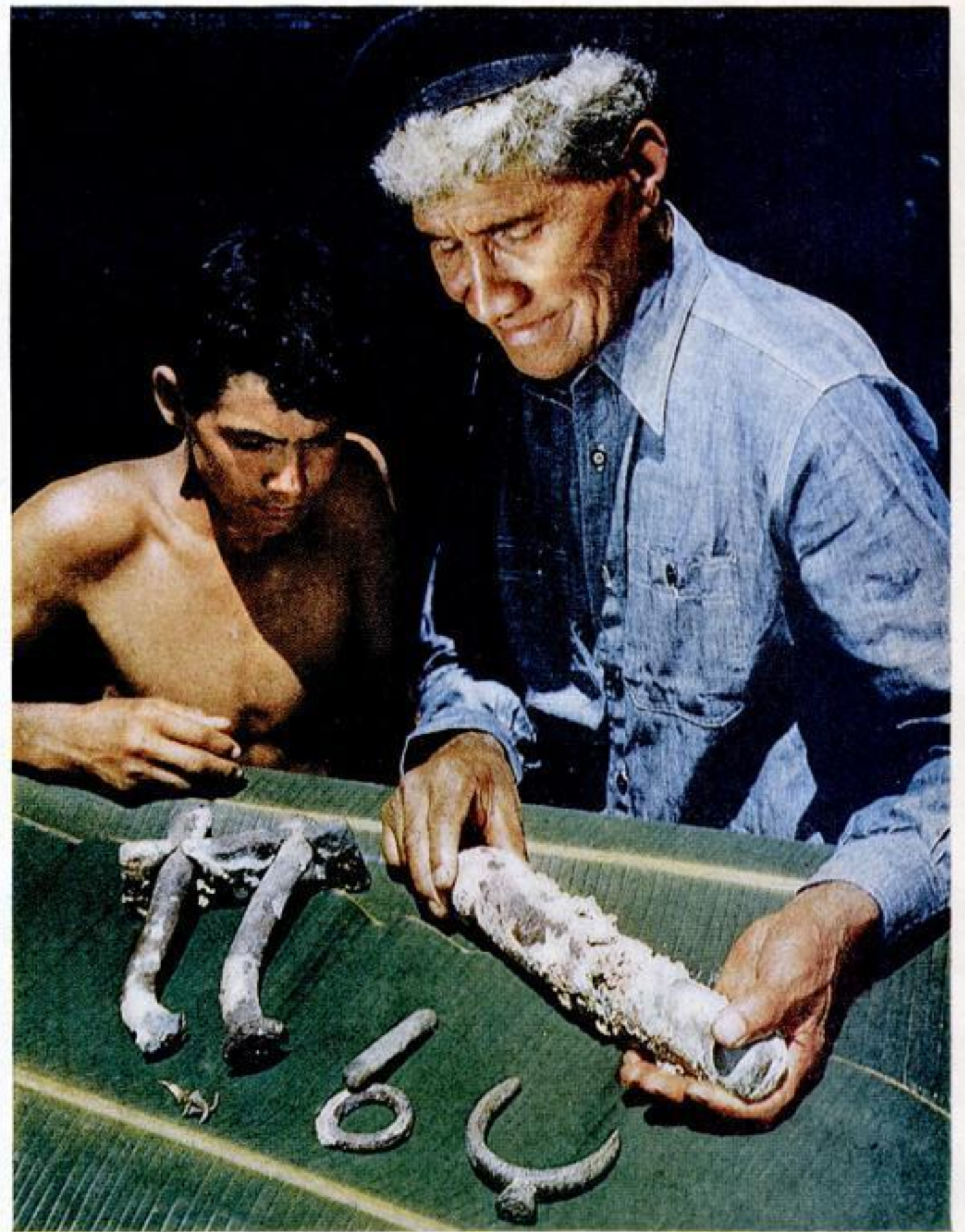
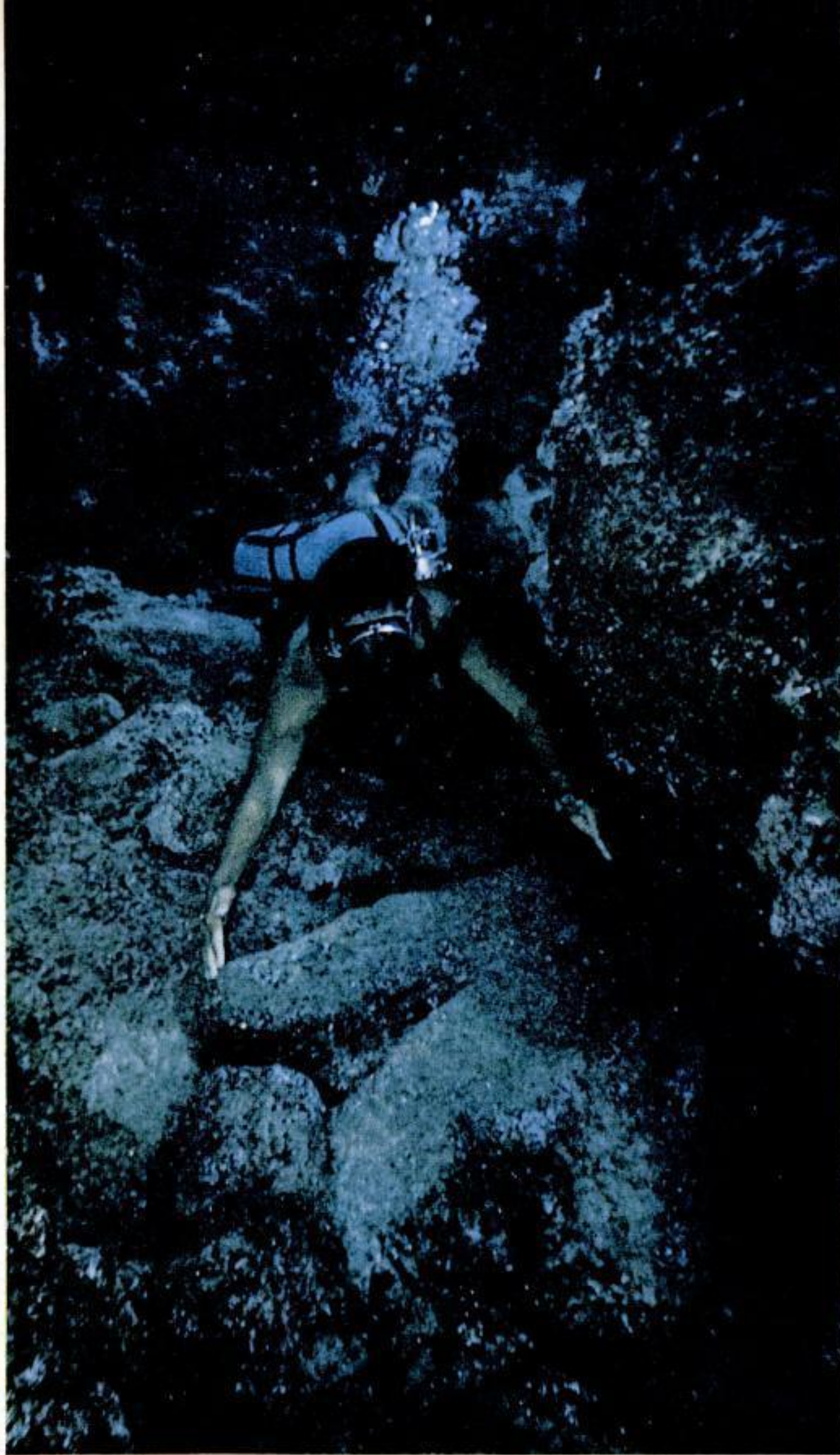
WRENCHED FROM OCEAN FLOOR 50 FEET DOWN, THE "BOUNTY'S" ANCHOR IS GUIDED BY DIVER AS IT IS HOISTED BY A CABLE LOWERED FROM "YANKEE"



RAISING ANCHOR, *Yankee's* crew hauls up the one-ton relic with ship's winch. Sharp, V-shaped flukes, unlike later rounded type, were typical of late 1700s.



BEACHED ON PITCAIRN the *Bounty's* 12-foot anchor, corroded and tipped with seaweed, is examined by Fletcher Christian, descendant of chief mutineer.

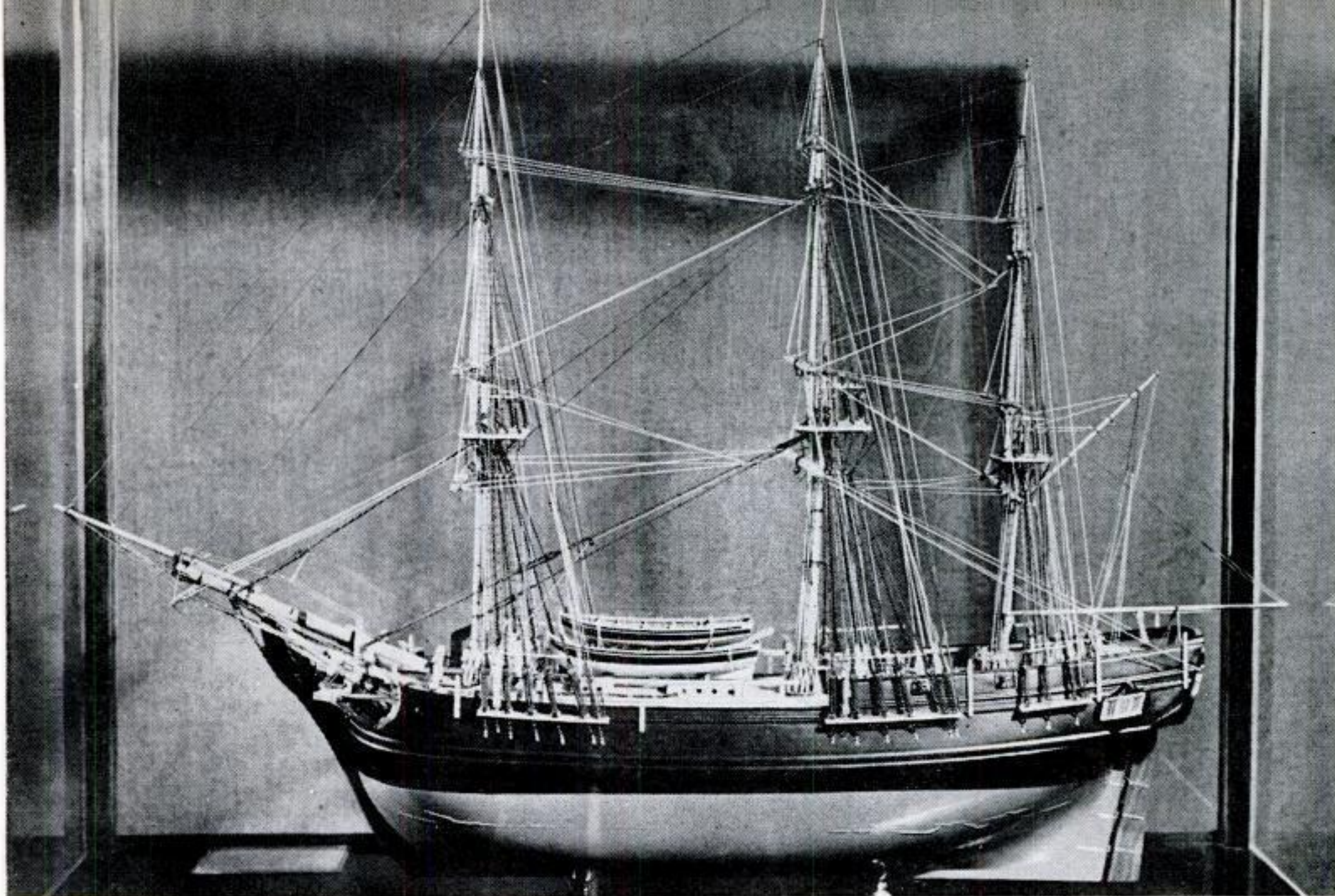


RUDDER PIN from *Bounty* is hefted by Fred Christian as Fletcher Christian studies ship's sheathing nails, hull fittings, oarlock. Both are chief mutineer's kin.

← BALLAST BAR, one of several 300-pound iron bars carried in *Bounty's* hull to stabilize ship, is measured under water by Tom Christian, a mutineer descendant.

SITE OF "BOUNTY'S" REMAINS IS SHALLOW WATER (MIDDLE FOREGROUND) OF PITCAIRN'S MAIN LANDING, OFFSHORE FROM PRESENT ISLANDERS' BOATHOUSES



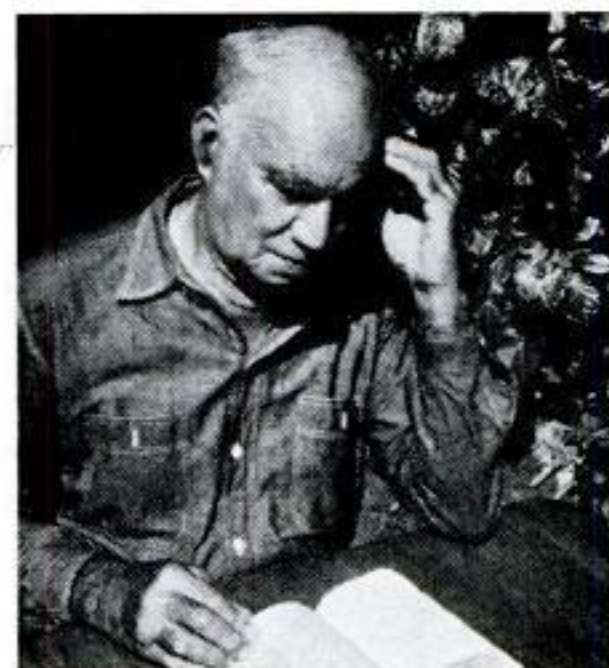


MODEL OF BOUNTY in Hyde Park library shows three masts, cannon, a cutter and a large launch in which Bligh

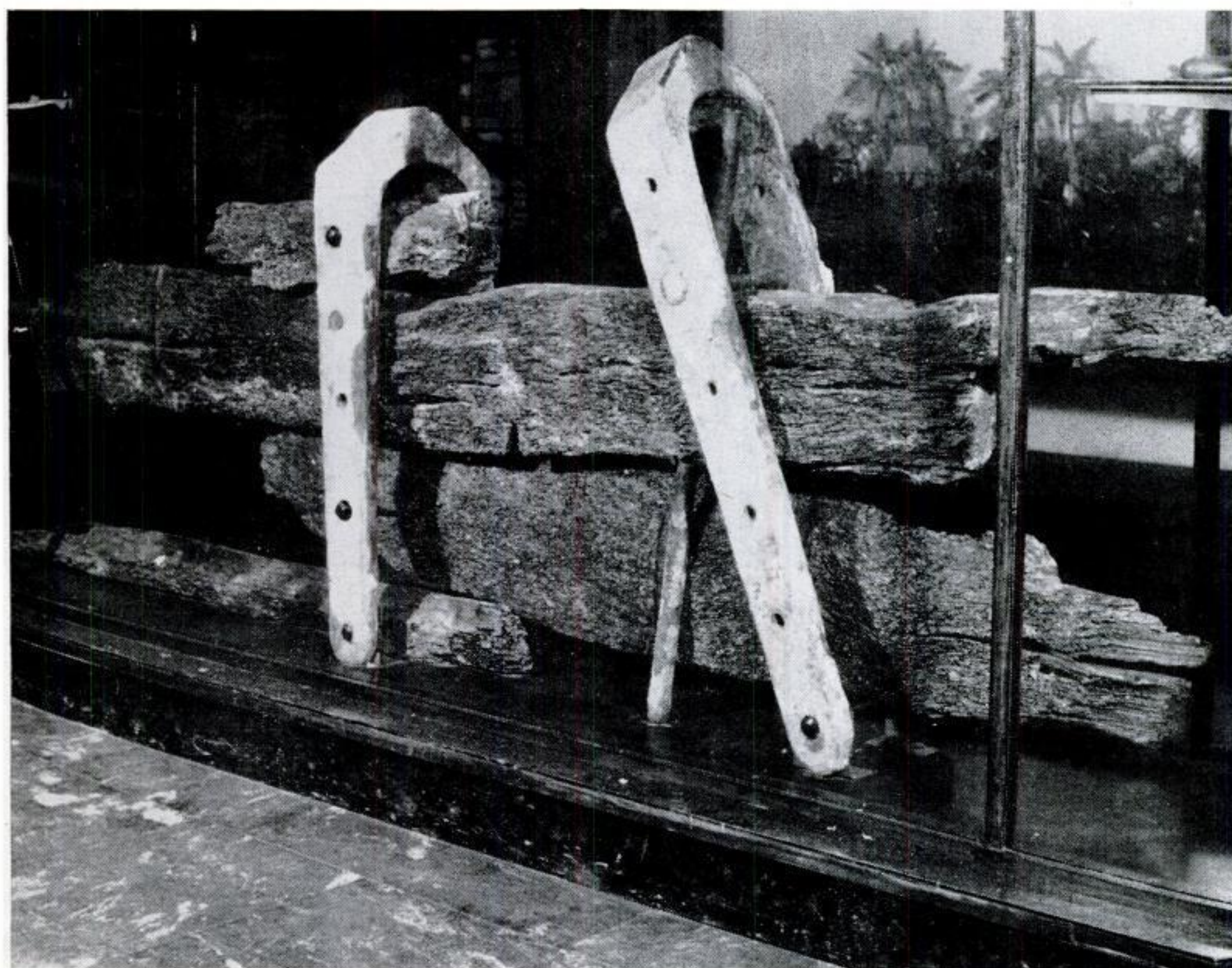
was set adrift. Designed as a fat-bottomed collier, ship was converted to carry cargo of breadfruit trees in stern.

A SOUVENIR SCARCITY

Until the new discoveries, few *Bounty* relics remained on Pitcairn, for the islanders had long ago sold or given away everything except a few nails found at the edge of the bay. In the 1800s the mutineers' families were so happy when an occasional ship stopped for water that they would present the visitors with *Bounty* equipment. The compass and chronometer went to the sealing vessel that in 1808 discovered the Pitcairners. Another ship took the *Bounty*'s two Bibles, one of which (right) later was returned. But when they realized that relics were valuable, the islanders began to sell them as souvenirs. Chunks of the *Bounty*'s rudder (below) were sold until it was sent to a museum. Interested today primarily in relics they think they can sell, some of the Pitcairners were bored with the newly found anchor because it seemed too big to cash in on.



SHIP'S BIBLE, kept in island chapel, is studied by Parkin Christian.



REMAINS OF RUDDER from *Bounty*, three feet wide and held together with bronze bands, was found by Parkin

Christian, the island's historian, in 1933. Later damaged by souvenir-seekers, it was sent to Fiji for safekeeping.

Looking for Something?



CONTRACTORS



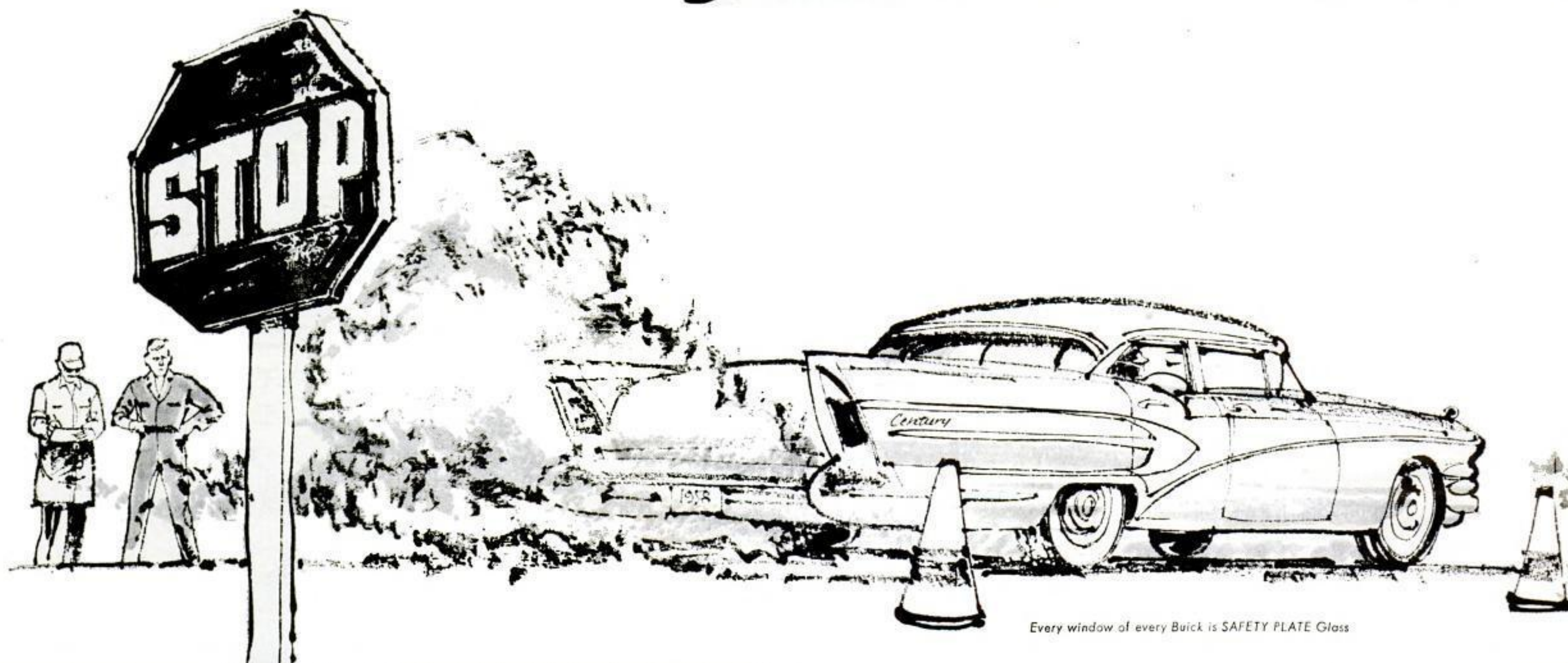
roofers, glaziers, gardeners' tools,
shoes, dresses, swimming pools?

whatever you need—

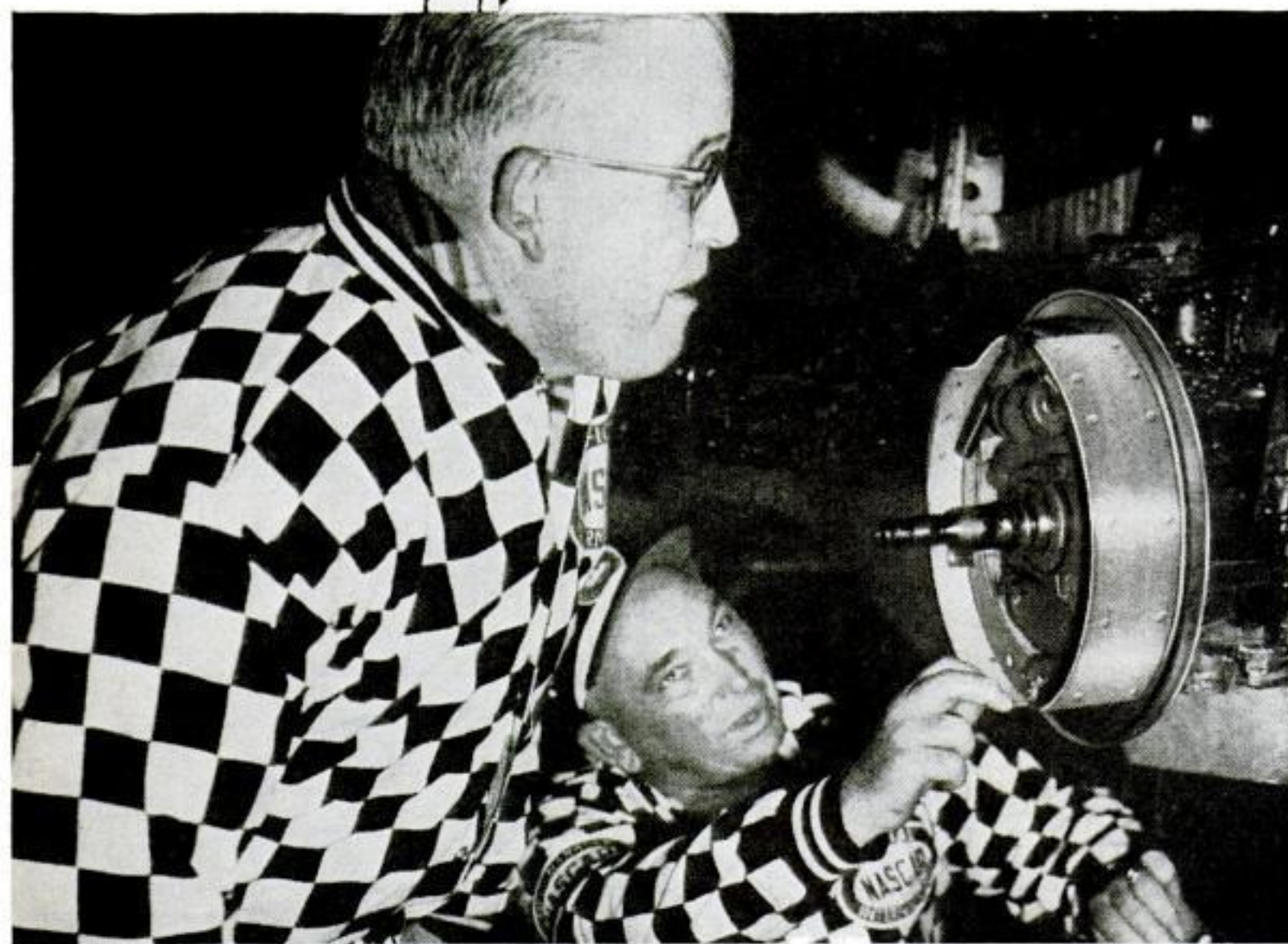


Advertisers displaying this emblem
make your shopping easy.

It's when the tires that you learn who



Every window of every Buick is SAFETY PLATE Glass



NASCAR (The National Association for Stock Car Advancement and Research) made a brake test even more blistering than the one made by SPORTS CARS ILLUSTRATED. NASCAR took a 1958 Buick CENTURY and 5 other cars to Daytona Beach. They accelerated each car to 60, pounded the brake pedal, turned around, and sped up to 60 again without giving the brakes a chance to cool off. Buick's 5 rivals took this kind of brake-scorching punishment for 20 to 30 stops. The '58 Buick



with air-cooled aluminum brake drums made 176 stops and showed no sign of fading. No other car's brakes even came close to matching this phenomenal performance. Aluminum front brake drums are standard on the Buick CENTURY, SUPER, ROADMASTER 75 and LIMITED Series, optional at extra cost on SPECIAL Series.

For your own and your family's safety, you'd better buy Buick — with the year's greatest safety advance!

Enjoy Buick's 2 TV Shows—"The Patrice Munsel Show," starring Patrice Munsel, on ABC-TV and "Tales of Wells Fargo," starring Dale Robertson, on NBC-TV

the **AIR BORN**

scream for mercy **has the SAFEST BRAKES**

They pounded the brake pedal — they left rubber on the pavement
— but they couldn't make those Buick
air-cooled aluminum brakes quit braking!



THEY BROUGHT a 1958 Buick CENTURY to the outskirts of Los Angeles—and they set out to murder the brakes.

They gunned two tons of steel to sixty, and then they slammed on the brakes.

Tires shrieked against the concrete. They left a smoky, tarry trail. But the driver showed no mercy . . .

Up to sixty. Hit the brakes. Up to sixty. Hit the brakes. On and on it went—22 times in all.

Those Buick air-cooled aluminum brakes took 22 crash-stops in a row—with never a chance to cool off—yet they were stopping the car perfectly when the driver admitted he was licked!

Meanwhile, the other American cars tested had lost most or all of their stopping power after only 11 of these brutal crash-stops.



No wonder, after making this savage test, SPORTS CARS ILLUSTRATED Magazine awarded Buick a trophy for bringing these great aluminum brakes to the American public. No wonder they congratulated Buick for making a "100 per cent improvement over conventional Detroit brakes."

And no wonder NASCAR (the National Association for Stock Car Advancement and Research) handed Buick its own safety award after making the similar—but even more intensive—test described at the left.

If you want stopping power that matches horsepower—if you want to surround yourself and your family with the year's greatest advancement in braking safety — you'd better buy Buick.

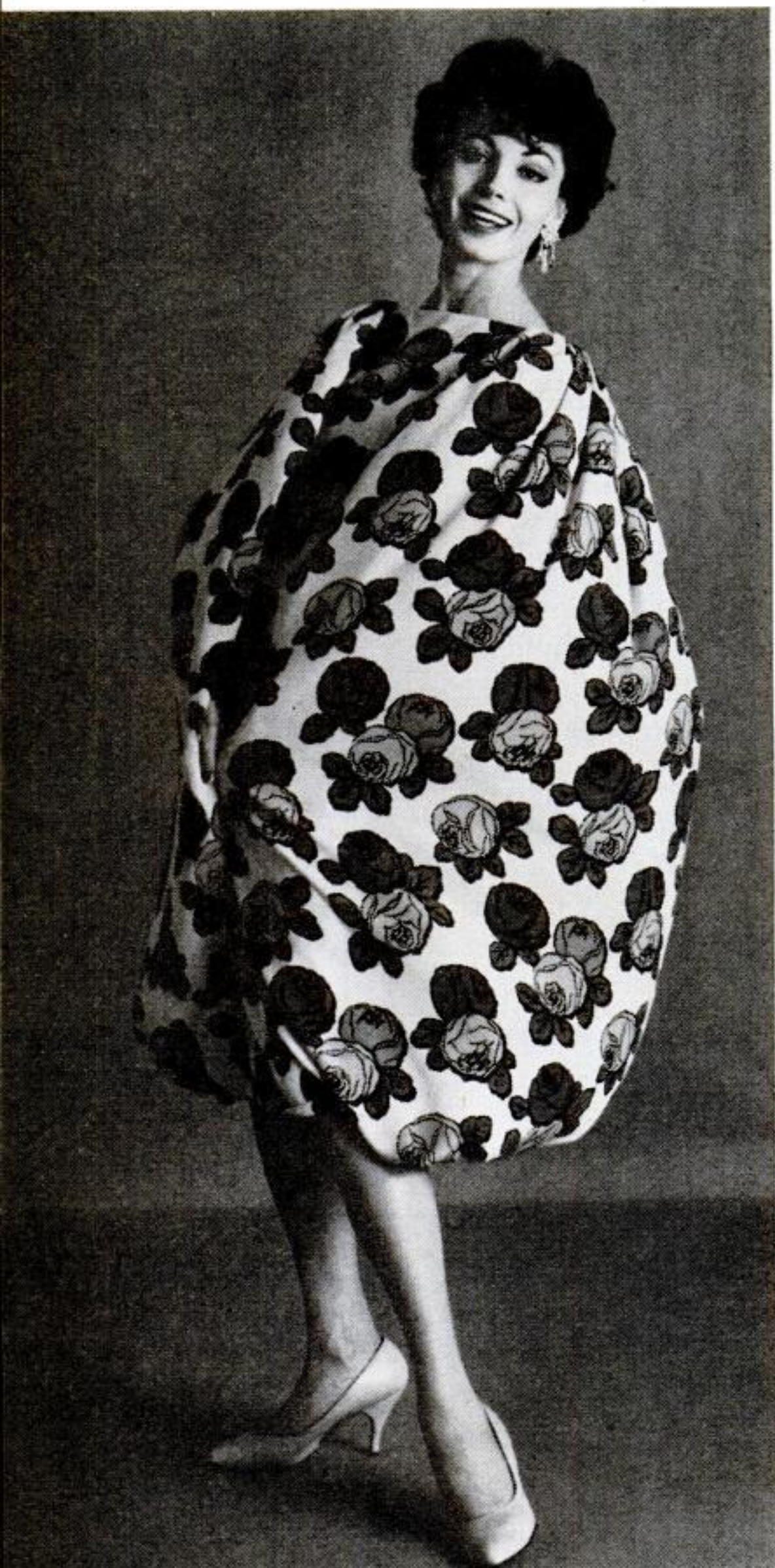
SEE YOUR AUTHORIZED BUICK DEALER



B-58 BUICK

Spring Fashion in the Round

As she takes on the new spring styles, the well-dressed lady is likely to acquire a new and disconcerting habit. At parties, she may suddenly start darting about the room, pirouetting as she goes. The cause of this condition can be found in many of the dressier dresses which look deceptively conservative from the front, but change their shape entirely when the wearer moves. The printed gown by Traina-Norell shown here is a simple chemise when seen in repose (*upper right*). But it has an attached panel which, as the wearer turns, billows out behind (*upper left*). It can be clutched like a cape (*bottom left*), and when seen from the back (*bottom right*) produces the effect of fashion in the round and makes the wearer look a little like a beach ball on legs.



Naturally from
KRAFT



Wrapped in double-strength aluminum foil to protect every delicious morsel

The old-time cheddar modern folks go for...

Cracker Barrel brand is what your true cheeselover is so glad to find on the snack tray these days. It's real old-fashioned natural cheddar that took its own sweet time to ripen. Such genuinely great cheese you'll want to "serve it plain"—simply with soda crackers or Melba toast.

Kraft's double-strength aluminum foil brings you each golden wedge as fresh as though it had just been cut from a big wheel ... the way granddad bought his cheddar. Pick up a Cracker Barrel wedge today to serve on your snack tray, or in sandwiches or with pie. You'll agree it's the *greatest*.



Sharp in gold aluminum foil

Extra Sharp in red foil

Mellow in silver aluminum foil

CRACKER BARREL BRAND IS THE FINE NATURAL CHEDDAR FROM KRAFT



75 FEET ABOVE ST. LAWRENCE RIVER, novice balloonist cheats gravity by climbing rope to basket above. Rope, luckily, was dry and climber wore rubber-soled boots.

He Forgot To Let Go

RUNAWAY BALLOON INITIATES AN AMERICAN FRIEND OF CANADIAN CLUB INTO AN EXCITING SPORT

BY FRANCIS SHIELDS
PHOTOS BY ROBERT HALMI

"A VETERAN balloonist would have dropped that rope like a hot potato, but not me. My friend Tony Fairbanks was in the basket; I'd been helping to release the mooring. Suddenly a gust of wind lifted the balloon skyward and I found myself the tail of the kite.

"It happened at a meeting of Canadian balloon clubs south of Montreal. Tony's big rubberized nylon bag, floating free inside its net of manila rope, held 35,000 cubic feet of cooking gas. That meant no smoking. It also meant a lot of lift. When I found myself 50 feet off terra firma, hanging on for dear life, I saw what cooking gas can do.

"We were 100 feet up before I could shinny up the rope to Tony's basket and climb aboard. Three hours and 40 miles later we were down and intact. When we finally got our land-legs back, Tony broke out the bottle he'd packed with our gear. I might have known it would be my favorite, Canadian Club."

Why this whisky's worldwide popularity? Only Canadian Club has a distinctive flavor that captures in one great whisky the lightness of scotch and the smooth satisfaction of bourbon. You can stay with it all evening long . . . in short ones before dinner, tall ones after. Canadian Club is made by Hiram Walker, now celebrating its 100th year of distilling leadership. It's "The Best In The House" in 87 lands.

Canadian Club

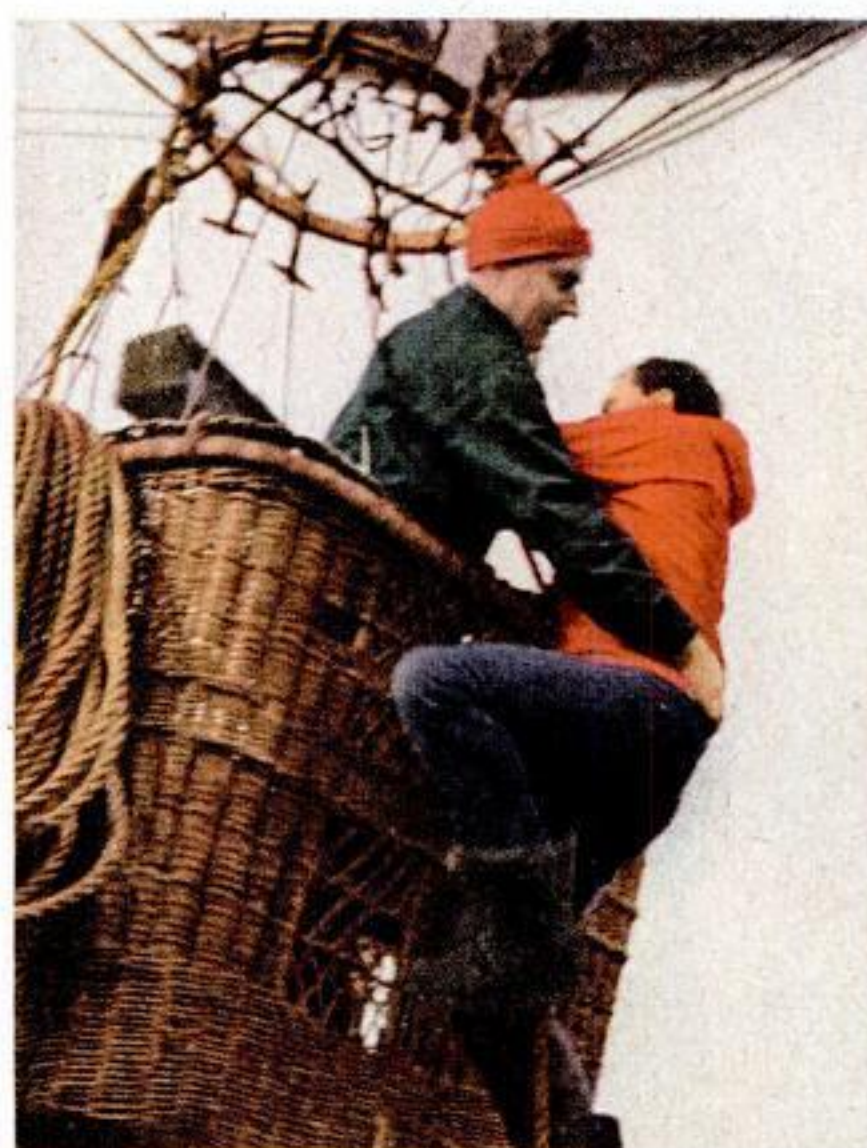
6 years old • 90.4 proof • Imported from Canada



Imported in bottle from Canada by Hiram Walker Importers, Inc., Detroit, Mich. Blended Canadian Whisky.



TELEPHOTO CAMERA LENS CATCHES PERILOUS MOMENT

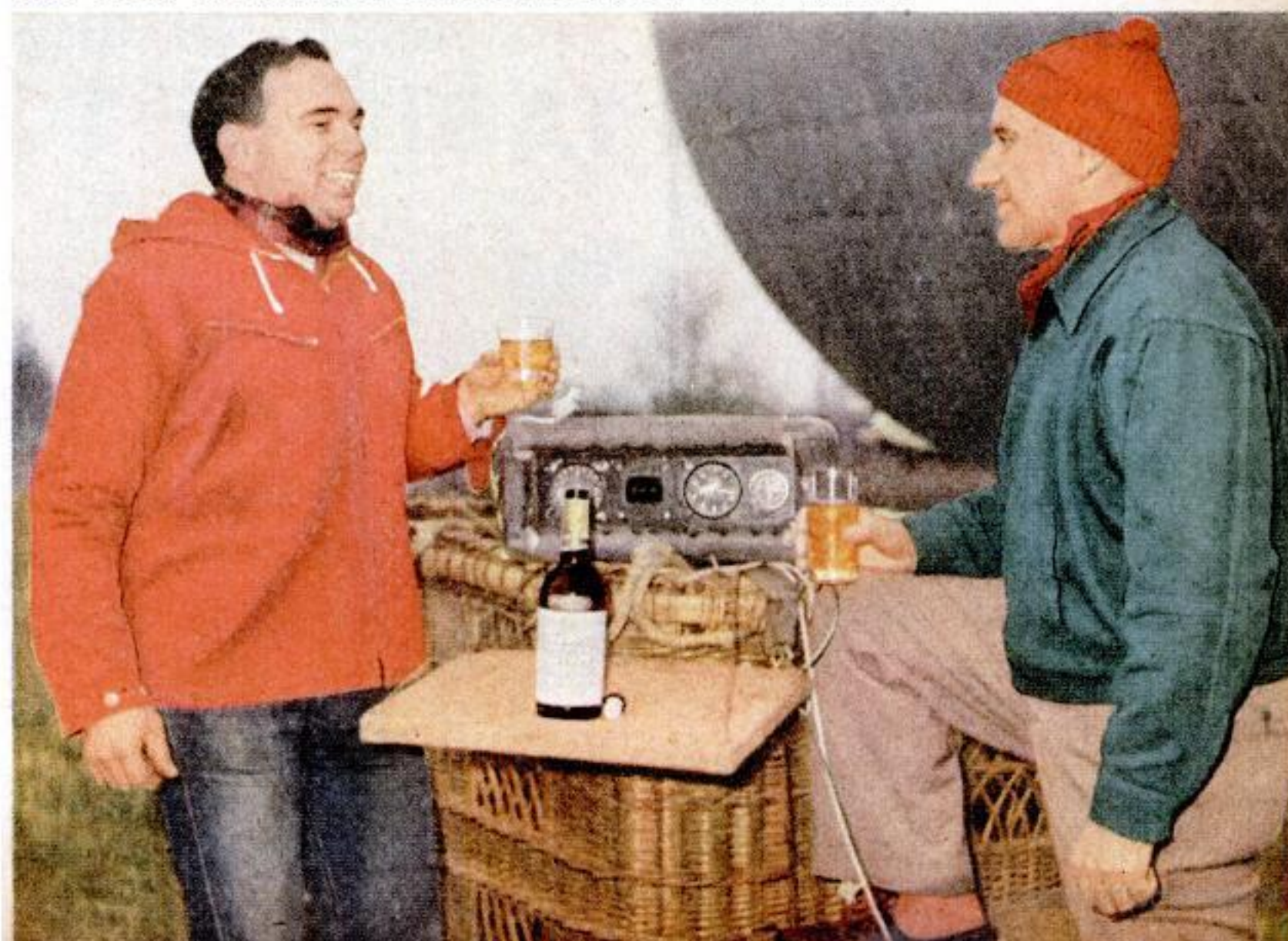


SAFE ABOARD AT 100 FEET



ALTITUDE: 1 MILE STRAIGHT UP

BEST VIEW: THE SIGHT OF CANADIAN CLUB ON SOLID GROUND



MEN OF AMERICA: THE LOGGERS

Live-action shots—Priest River, Idaho.



Logs go crashing
in a mighty dive!



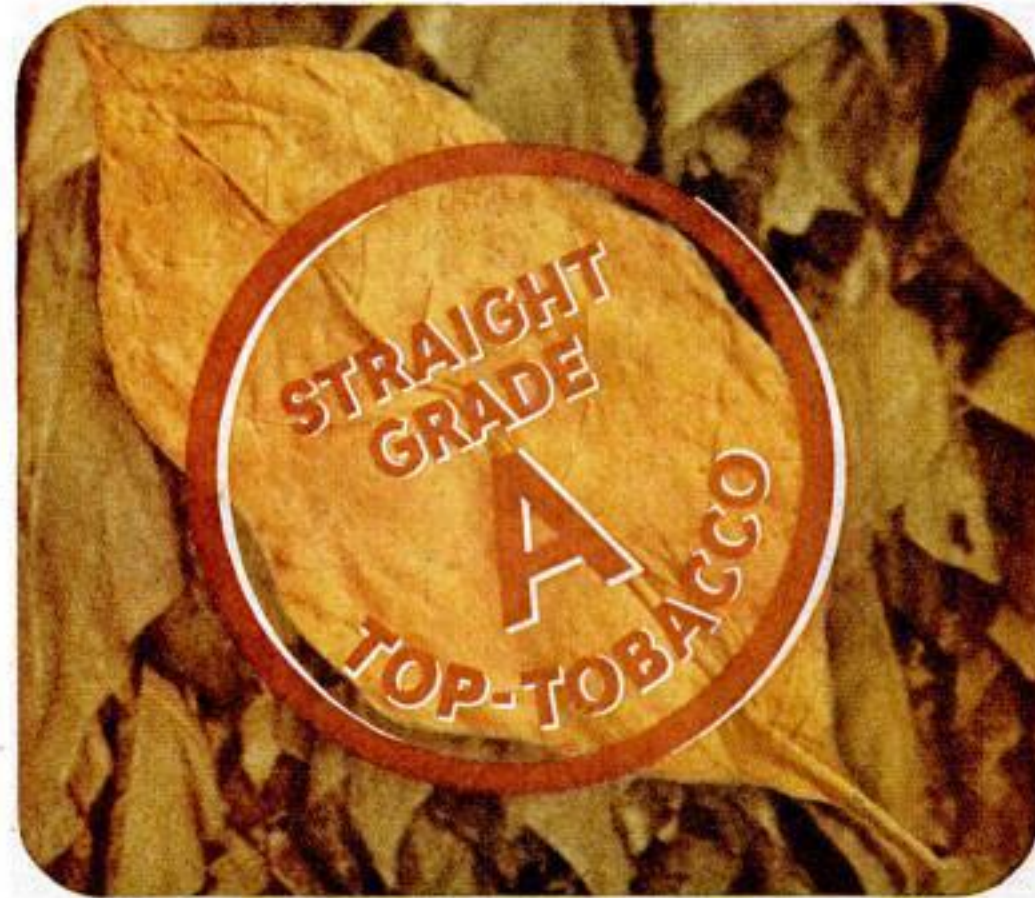
Hobnails flashing
on a timber drive!



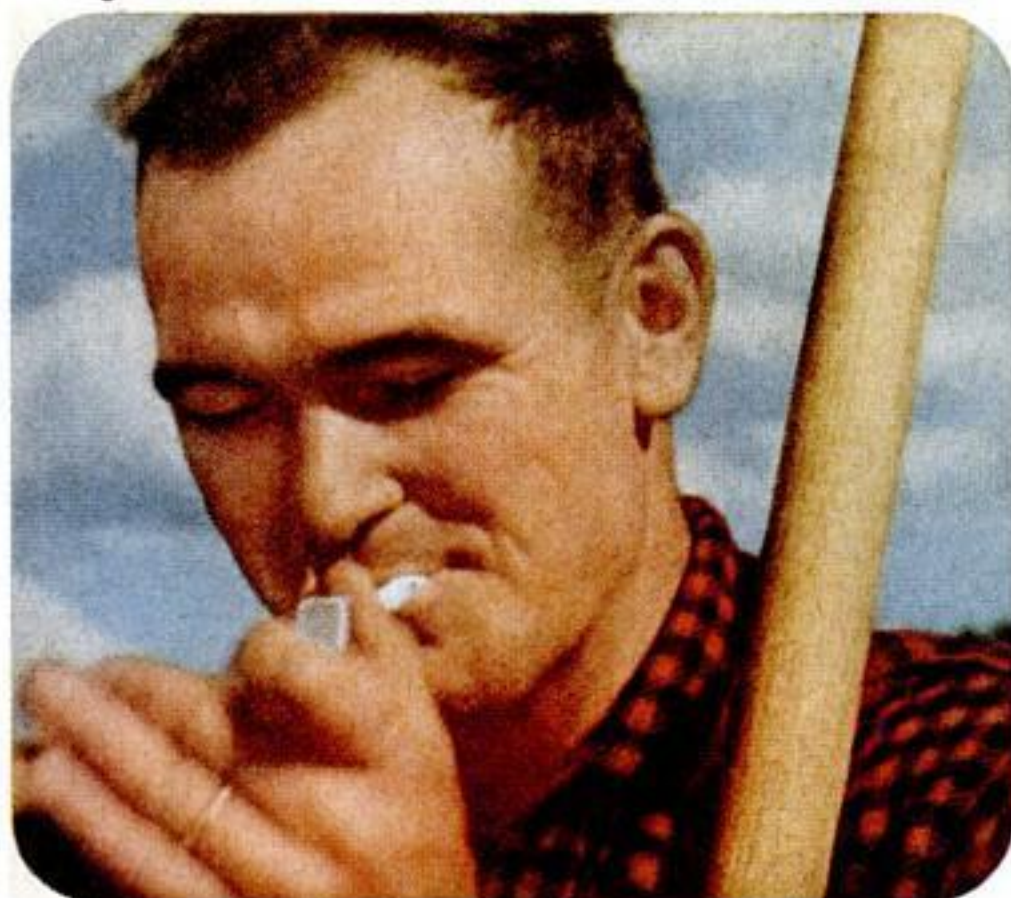
Where the loggers work
you'll find a man



Stops and takes big pleasure
When and where he can . . . Chesterfield!



Always the top-tobacco, straight Grade-A,
The top-tobacco in the U.S.A.



This sun-drenched top-tobacco's
gonna mean . . .



That you're smokin' smoother and
you're smokin' clean!

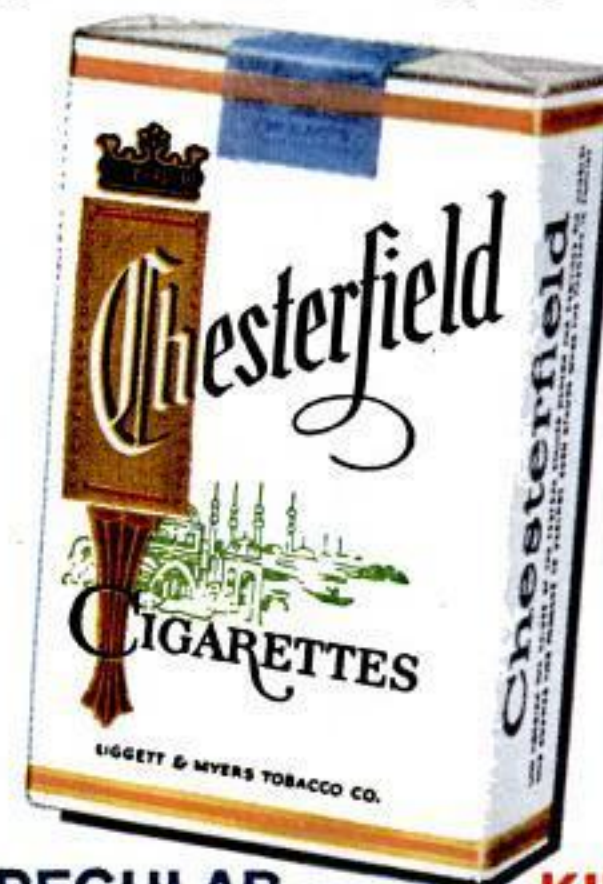


The very best tobacco in the U.S.A.
Gives you big clean flavor in a big, big way.

*When you've earned a smoke—*nothing satisfies like the
BIG CLEAN TASTE OF TOP-TOBACCO!

CHESTERFIELD

© Liggett & Myers Tobacco Co.



REGULAR

KING



ON AN ANTIQUE HUNT IN LONDON, INGRID BERGMAN LAUGHS HAPPILY OVER A NEWSPAPER-WRAPPED PRESENT CARY GRANT HAS JUST SURPRISED HER WITH

HAPPY LONDON GET-TOGETHER

Ever since they played together in a Hitchcock thriller called *Notorious* 12 years ago, old friends Cary Grant and Ingrid Bergman have been telephoning each other from various parts of the world with story ideas for another collaboration. Finally in Rome late last year Miss Bergman got a movie script from Grant about a flamboyant actress who falls in love with a big financier. Based on the Broadway play *Kind Sir*, it was called *Indiscreet*. Ingrid wasn't too crazy about it. But she somehow concluded that doing high comedy in London

with Cary would beat sitting around Rome gloomily contemplating her marital troubles with Roberto Rossellini. So off she went.

London turned out fine and friendly. Miss Bergman worked hard, enjoyed strolling with Grant, laughed a lot for the first time in a long while. She felt so at home in London, in fact, that she decided to bring her three children up from Rome and settle down there. This will have to wait, however, until she returns from Formosa, where she is going to make a film called *The Inn of the 6th Happiness*.

Faster, easier RELIEF FOR ALL THESE COLD MISERIES

with pleasant new liquid!

- Open stuffed-up nose!
- Soothe raw, sore throat!
- Loosen phlegm, ease cough!
- Relieve headache, body pains!

TAKES THE PLACE OF



TASTES
GOOD TOO!



No one-purpose remedy gives
such thorough relief as

NEW 4 WAY® LIQUID Cough and Cold Medication!

It's an easy-to-take liquid that's faster-acting! It's a combination of modern medicines that can relieve cold distress more thoroughly than any single-purpose remedy...better than cough syrups, nose drops, aspirin! It's new 4 WAY LIQUID Cough and Cold Medication—with exclusive Rynosec®!

Almost at once, 4 WAY LIQUID makes you feel better *all over*! Yes...being liquid, it's instantly ready to speed relief into your blood-stream, throughout your body! And it contains Rynosec® too. That's why new 4 WAY LIQUID brings more relief, faster relief of cold miseries! At all drug counters now! *Trademark

WHAT ABOUT ASIAN FLU?

The symptoms of Asian Flu are often very similar to those of the common cold—symptoms which 4 WAY LIQUID is specifically formulated to combat. However, the major danger signal is fever...running as high as 102 to 104 degrees. When such symptoms occur with fever...particularly among children under 3 or adults over 65...consult your physician.

LONDON GET-TOGETHER CONTINUED



HEFTING AN ORANGE CRATE in Covent Garden market after finishing a scene in nearby opera, Cary shows Ingrid how hard London porters work.



PEERING THROUGH WINDOW on Portobello Road, London junk and bargain center, they look for antiques. Grant bought Ingrid a drinking mug.

Feeling
"HALF-
THERE"
due to
Upset
Stomach?



Settle Your Stomach in Seconds with Milk of Magnesia!

Scientific tests show that Phillips' Milk of Magnesia actually settles your stomach in *seconds*! That's because Phillips' is one of the *fastest, most effective* stomach acid neutralizers ever discovered!

So whenever upset stomach, gas, heartburn or other symptoms of acid indigestion have you feeling only "half-there", take Phillips' Milk of Magnesia right away. In almost no time at all you'll be back to normal—feeling bright and chipper again. Get Phillips'—either regular or in new, mint-flavored form that tastes delightfully clean and refreshing.



PHILLIPS'
Milk of Magnesia
REGULAR • FLAVORED

... because I value human life

ALTHOUGH IT IS CUSTOMARY to label the 20th Century as the Age of the Atom, I like to think of our time of living as the Age of Humanity.

Already the tremendous strides being made in medical research point the way to a happier, healthier time which is certain to bring impressive victories over the main killers of our people: cancer, arteriosclerosis of the heart and brain; the crippling neurological diseases such as cerebral palsy, arthritis, and blindness.

LIFE has made outstanding contributions, not only in reporting the progress of medical research, but in clearly relating these new gains to the lives of every one of us.

The Salk vaccine, use of tranquilizing drugs in mental illness, the various aspects of psychiatry—these are just a few of the vital areas of medical research which LIFE has made clear, understandable and therefore increasingly hopeful.

Because I value human life, I hope LIFE will continue to alert people to what someone has called the “gift” of life. During the past ten years alone our life expectancy has been increased by six years. The prime of our lives has begun to be, and can be even more prolonged through medical research—and this should be America’s great challenge: through intensified medical research we can add years of richer life to the peoples of the world.

But it is only through knowledge and understanding that we can hope for more action, greater support from government and private sources so urgently needed in the continuing struggle for victory over mankind’s major killing and crippling diseases.

MARY WOODARD LASKER

MRS. ALBERT D. LASKER is head of the Albert and Mary Lasker Foundation which, among many other activities, gives the noted annual Lasker awards—symbolized by the “Wings of Samothrace” (left, below)—for medical research, health administration, and medical journalism. Responsive to beauty as well as to human need, Mrs. Lasker owns a famous collection of paintings. Because of her love of flowers, New York City’s Park Avenue bloomed with thousands of tulips and daffodils last spring (right, below), donated by Mrs. Lasker.



LIFE 9 Rockefeller Plaza, New York 20, N. Y.



"How I use
Murine
to rest
my eyes
from glare"

LEONARD WARREN
Metropolitan opera star and
R.C.A. recording artist

"Singing under powerful stage lights is tiring to my eyes," says Leonard Warren. "I keep Murine handy in my dressing room. It soothes my eyes in a jiffy." When glare, tension, smoke or dust irritate your eyes, rest them with gentle Murine. It cleanses as well as comforts. Use Murine morning and night. Keeps your eyes feeling clear and bright.

MURINE

FOR YOUR
EYES

New!
Unbreakable
dropper



THE MURINE CO., INC., CHICAGO, U. S. A.
*TRADEMARKS REG. U. S. PAT. OFF.



FOOD FOR THE BIRDS is tossed out in Kensington Gardens. The birds are afloat on the Serpentine, which Ingrid thought was the River Thames.



BIRTHDAY TOAST for Cary (his 54th—he was born in Bristol, England) is drunk in champagne in a famous London theatrical pub, "The Salisbury."

Sore, aching muscles?

Here's
quick relief
when
weekend
workout
makes
muscles
cry for help—



You'll get soothing relief when you massage Absorbine Jr. into your skin.

You feel a warm glow when you rub Absorbine Jr. on painful areas. And because it stimulates local circulation, it helps counter the pressure that makes muscles throb and ache. Soothes irritated nerve endings.

Absorbine Jr. is famous for the wonderful relief it has given hundreds of sufferers. (Letters in our files tell us so.)

Buy Absorbine Jr. today. Not greasy, not sticky, it rubs in all the way! Guaranteed satisfaction or money will be refunded.



W. F. Young, Inc.,
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ABSORBINE JR.

Do Your Hands Tell Your Age?

Bluettes
Keep them Young!

PIONEER **SMALL**
Neoprene Rubber Gloves
Don't Let Your Hands Tell Your Age. Keep Them Young.



The PIONEER Rubber Company
Willard, Ohio



Taste... and enjoy the beer
with that champagne sparkle



THE CHAMPAGNE OF BOTTLE BEER



Photography—Leslie Gill
Outfit—Jeanne Campbell
of Sportswirl
Pre-Columbian Nayarit—
Carlebach Gallery, New York
Architectural Pottery—
Robert Barber, Inc.

© Miller Brewing Company, Milwaukee, Wis.

Brewed and Bottled by the Miller Brewing Company ONLY . . . and ONLY in Milwaukee, Wisconsin



BENT FOR THE PLUNGE, THE DOWNHILL RACER DRIVES HARD WITH HIS POLES AS HE STARTS HIS DESCENT

THE SKIER'S OWN WORLD

Camera expresses motion and mood that set sport apart

The skier lives in a world apart, a world crowded with unfamiliar excitement and beauty. Soaring through a jump or slamming into a turn, he experiences feelings of speed and flight unknown to man without wings or motor. The sudden swoop, lift and dip of a fast run plucks out the mind, leaving him with an awareness only of wide silence and sensational movement. These are qualities of skiing revealed in these photographs taken at Sun Valley, Idaho and Alta, Utah.

Skiing also offers the appeal of physical danger. "You are testing yourself all the time," says a skier. "It is a test you can never fully pass, but if you do well there is a special satisfaction." And for the skier willing to leave the trail and tour through unbroken snow, there is a sense of exploration and discovery when his only link with the everyday world is the track he leaves behind.



Frisking in sticky snow, two skiers do a geländesprung, leaping forward through their poles like giant kangaroos in full flight.

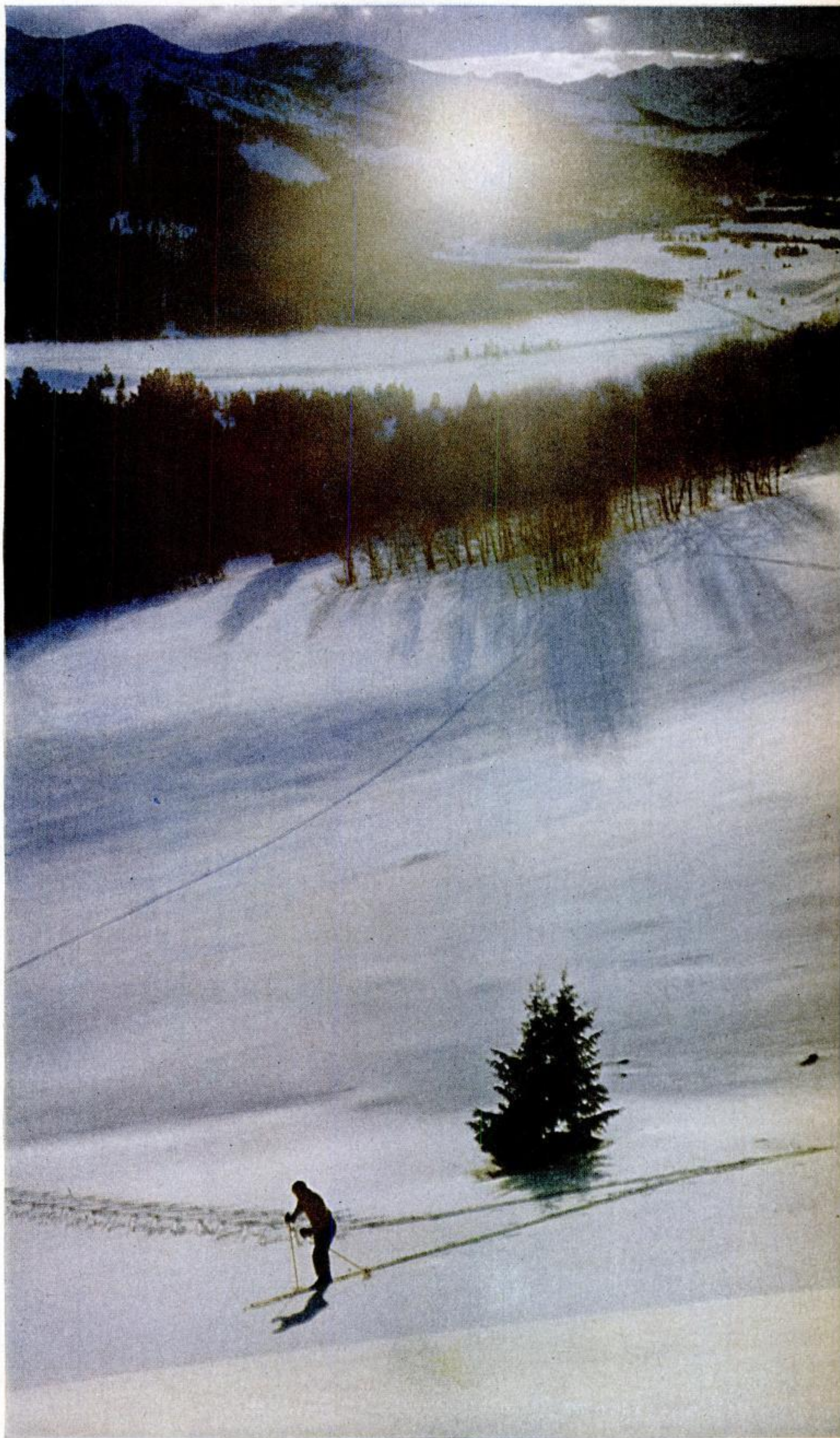


*A rhythmic turn in wet powder shoots up a snow spray
as skiers match movements weaving down a slope.
To get this rare impression of turning on skis,*

*Photographer George Silk attached a camera to the
front part of his left ski (foreground) and
triggered it by wire that ran from the ski to his hand.*

Photographed for LIFE by GEORGE SILK



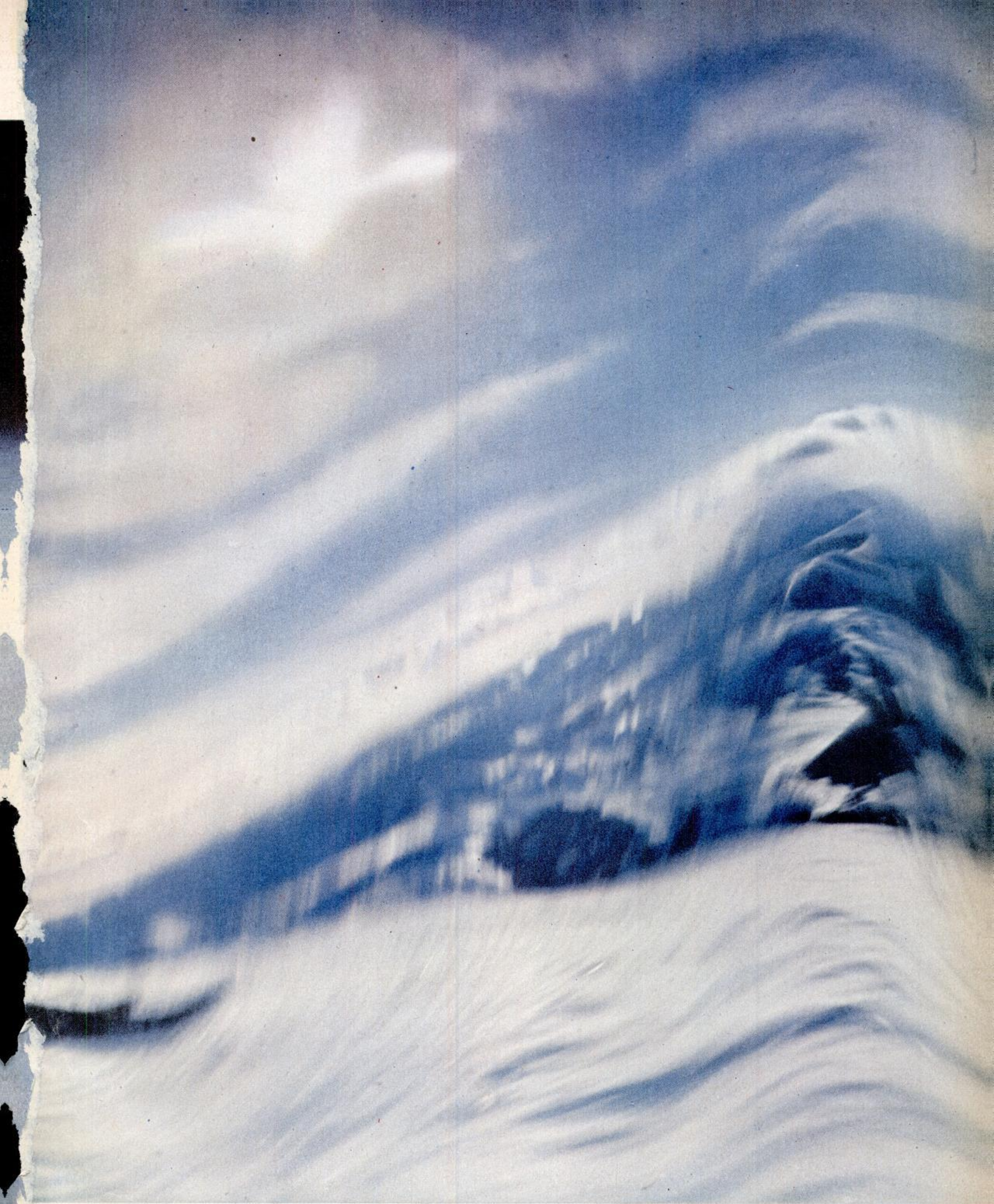


A skier on a lonely traverse slowly climbs in unmarked snow as the late afternoon sun, about to lower behind the Sawtooth Range of southern Idaho, spreads languidly through a stand of aspens.

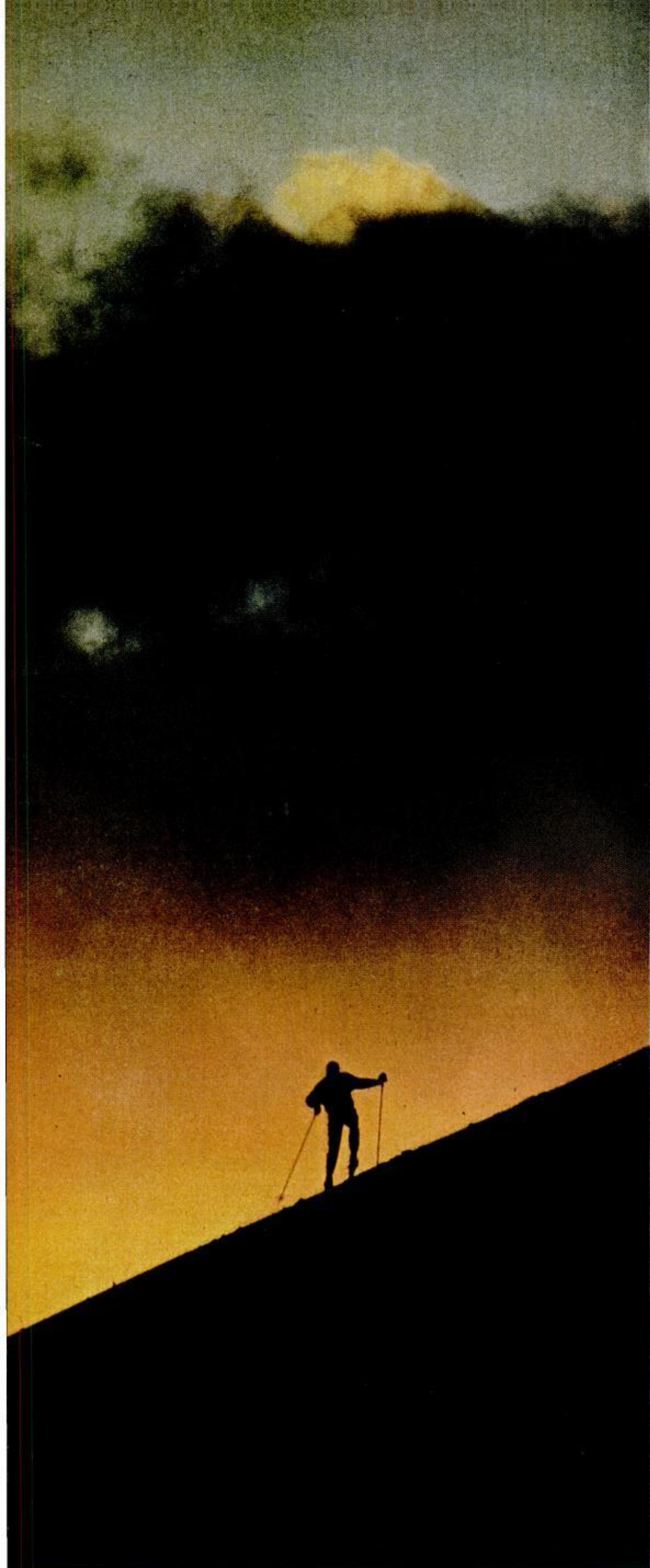
Framed in a swirling snow wake, the skier (Jack Wilderman of Sun Valley, who appears on these and the following pages) swings behind George Silk's camera-equipped ski (foreground) in a swift game of follow-the-leader.



Skiing the skyline high above Sun Valley, Wilderman glides gracefully down the undulating Ridge Run near the deep snow summit of Mt. Baldy. Bathed in sun and braced



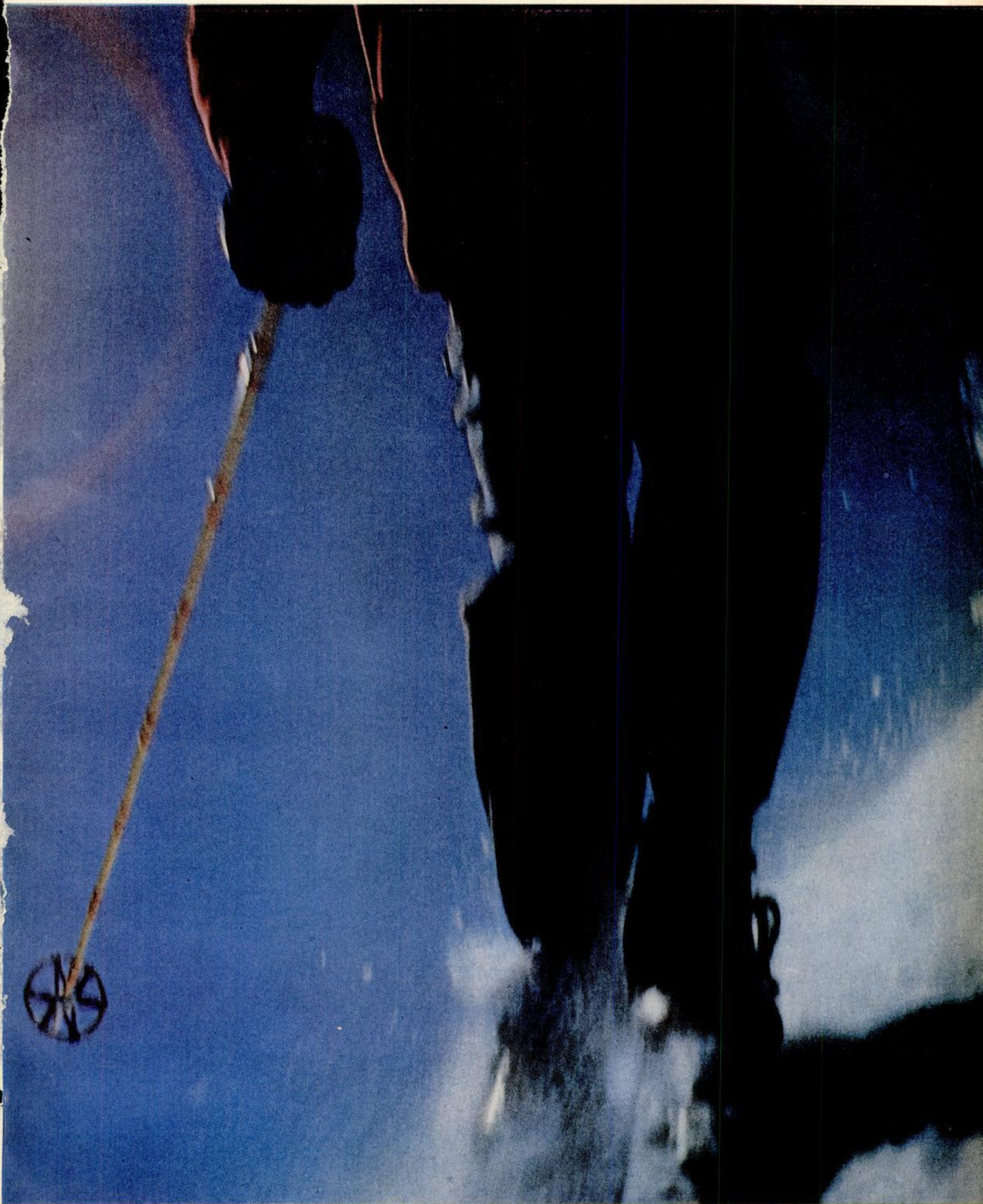
*by wind, he comes to the glistening run which
will plummet him to the valley floor 3,200 feet below down a
wide avenue sliced through the rime-trimmed trees.*



Against the sunset flare, the skier sidesteps his way up the steep pitch of Idaho's remote Galena Peak. He climbs easily and methodically, savoring with mounting anticipation the last run of the day.

On the "milk run," the skier slides through the powdery, untracked snow of early morning. Reflection of the brilliant light from ice crystals high in the air forms a halo around the piercing sun.





Big things have happened to Wheaties!

New Crispness! New radiant-crisp Wheaties *start* crisp, *stay* crisp, right to the bottom of the bowl!

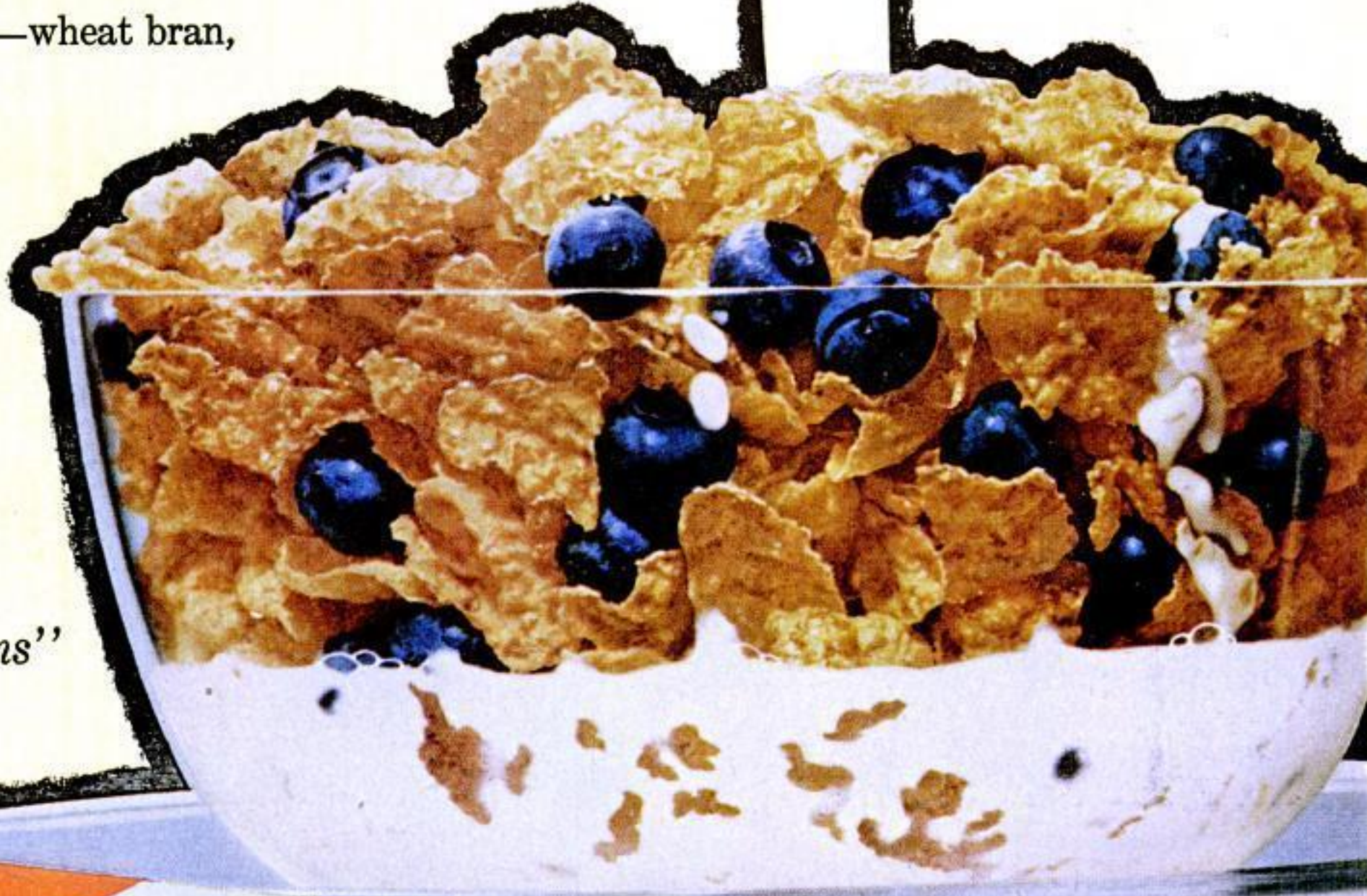
New Flavor! All the good of *all* the wheat—wheat bran, wheat germ, wheat energy!

New Color! A deep-gold promise of pure eating pleasure!

Try New Wheaties . . . FREE!

So that you'll try them right away, we'd like to buy your first package. See the free offer below.

 New "Breakfast of Champions"



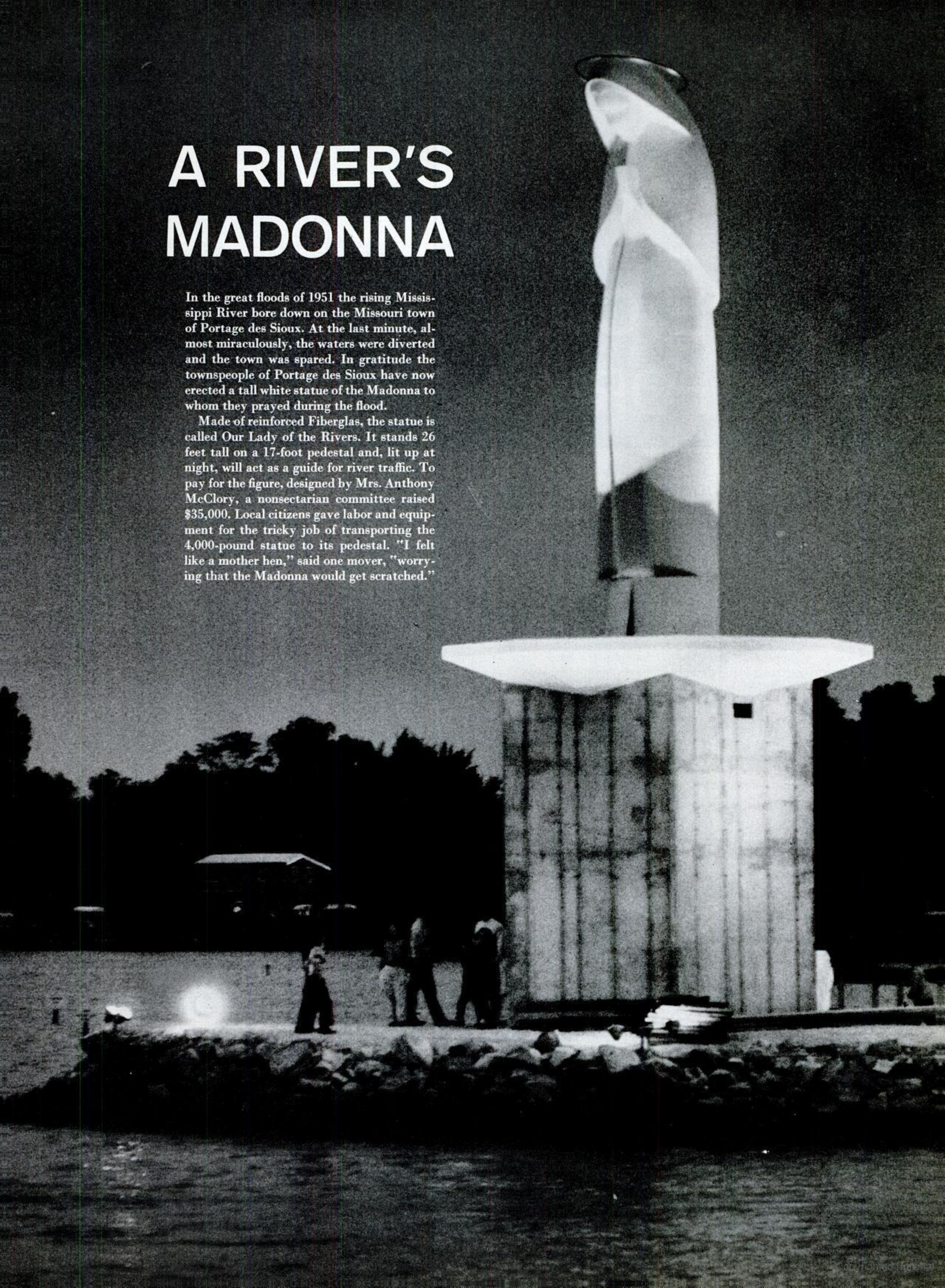
FREE OFFER!

WE'LL BUY YOU AN 8-OZ. PACKAGE OF THE NEW WHEATIES! Simply send the words, "NEW Radiant-Crisp" from the front of an 8-ounce package of New Wheaties, mark the price you paid and we'll refund your full purchase price. Refund limited to 25¢. One per family. Send to "NEW WHEATIES," General Mills, Box 641, Minneapolis, Minn. Offer expires March 8, 1958.

A RIVER'S MADONNA

In the great floods of 1951 the rising Mississippi River bore down on the Missouri town of Portage des Sioux. At the last minute, almost miraculously, the waters were diverted and the town was spared. In gratitude the townspeople of Portage des Sioux have now erected a tall white statue of the Madonna to whom they prayed during the flood.

Made of reinforced Fiberglas, the statue is called Our Lady of the Rivers. It stands 26 feet tall on a 17-foot pedestal and, lit up at night, will act as a guide for river traffic. To pay for the figure, designed by Mrs. Anthony McClory, a nonsectarian committee raised \$35,000. Local citizens gave labor and equipment for the tricky job of transporting the 4,000-pound statue to its pedestal. "I felt like a mother hen," said one mover, "worrying that the Madonna would get scratched."





AIR-TO-AIR NUCLEAR MISSILE IS LAUNCHED BY F-89 SCORPION (ABOVE). IT EXPLODES IN MID-AIR (OPPOSITE PAGE)

THE COMPELLING NEED FOR NUCLEAR TESTS

'Father of H-bomb' and colleague answer 9,000 scientists: fallout risk is overrated and we must have 'clean' weapons to spare civilians in war

by DR. EDWARD TELLER and DR. ALBERT LATTER

The authors of this article are top experts on atomic physics and radioactive fallout: Dr. Edward Teller, one of the world's foremost nuclear scientists, and Dr. Albert Latter, theoretical physicist who worked with Dr. Teller on the Air Force's Scientific Advisory Board. The material in their article is from a book, Our Nuclear Future (to be published next month by Criterion Books), which discusses the nature of nuclear energy and offers a documented explanation of why the U.S. testing program is necessary.

LAST month the U.N. received a petition signed by more than 9,000 scientists urging an immediate halt to nuclear bomb tests. The petition said that the tests were endangering both the present population of the world and generations yet unborn and declared that an agreement to stop such testing is now feasible. Dr. Linus Pauling, the American scientist who presented the document to the U.N., said further that in his opinion the U.S. will never achieve one of the principal objectives of its nuclear tests: the production of a "clean" bomb—i.e., one with little or no radioactivity. These are statements of tremendous importance. If true, they strongly support the position that we must stop nuclear tests at once.

But they are not true. The statements are at best half-truths, and they are misleading and dangerous. If acted upon, they could bring disaster to the free world. Sober consideration of the facts makes it perfectly clear that we must continue testing nuclear weapons. Such tests do *not* seriously endanger either present or future generations. It is true that they might be halted by agreement—but there would be no way to prevent the Soviet Union, a notorious violator of agreements, from starting them up again in secret. And finally, American tests *are* leading to the development of a clean bomb.

Many people besides the scientists who signed the petition feel that tests should be discontinued. Since the people are the sovereign power in a democracy, it is of the greatest importance that they should be honestly and completely informed about all the relevant facts.

Unfortunately much of the discussion about continued nuclear experimentation has been carried out in a most emotional and confused manner. One argument is so fantastic that it deserves to be mentioned for that very reason: it has been claimed that nuclear explosions may change the axis of the earth. Of course nuclear explosions do produce such changes. But the cumulative effect of all past tests has been to shift the position of the North Pole by less than the diameter of an atom.

The argument about worldwide radioactive fallout is more serious. It is asserted that fallout is dangerous and that we are ignorant of the

extent of the danger. But when we examine the facts we shall see that the danger is considerably less than the danger from other radiations to which we constantly expose ourselves without concern.

Every explosion of a conventional nuclear bomb fills the immediate vicinity with dust-carrying radioactive contamination. The heavier particles fall to earth in a short time and contaminate only the test area itself. But the remaining particles are carried aloft and some of them are transported all over the globe by high altitude winds. They fall back gradually, primarily in rain, depositing their radioactivity on the ground in every part of the world. This is the worldwide fallout that everybody is worried about. It contains two dangerous radioactive isotopes: Strontium-90, which in high doses could cause bone cancer and leukemia, and Cesium-137, which affects the reproductive organs. The big question is whether dangerous quantities of these two poisons are being absorbed by our bodies as a consequence of nuclear tests.

The dangers from big doses of radiation are well known. The intensity of radiation is usually measured in units called roentgens. Exposure to 1,000 roentgens over one's whole body causes almost certain death in less than 30 days. Four or five hundred roentgens allow a 50-50 chance of survival. At less than 100 roentgens there is no danger of immediate death. And if the exposure is spread over a long period of time, bigger radiation doses than this can be tolerated.

The subtle dangers

ALTHOUGH 100 roentgens all at once, or several times this amount over a protracted period, will not cause sickness that can be directly blamed on the radiation, such a dose may have harmful biological consequences which are more subtle. A person who receives 100 roentgens does not necessarily contract bone cancer or leukemia. But there is strong evidence that his chance of contracting these diseases during his lifetime has been increased.

This sounds frightening until one considers the slight amount of radiation we are subjected to from worldwide fallout. When Strontium-90 falls to the earth it may be absorbed by growing plants. It reaches our bodies when we eat the plants or when we drink milk from cows which have grazed on radioactive grass. Since this isotope is concentrated in the bones, particularly in growing bones, the humans who absorb the greatest dosage of roentgens are young children—especially those in the northern part of the U.S. which is a region of maximum fallout. Adults who reached mature growth before the atomic testing started are now getting about 0.0003 roentgen a year in their bones from Strontium-90.



EXPLODING OVER TEST CREW, missile produces circular cloud (*above*) as Air Force officers (*below*) stand without protection. None was hurt by blast or fallout (*see p. 70*).





THE AUTHORS have both been involved in U.S. atomic programs since the Manhattan Project of World War II. Dr. Teller (*right*), called "Father of the H-bomb," is on the staff of the University of California and is a member of the AEC General Advisory Committee. Dr. Bethe works for the Rand Corporation, a nonprofit scientific agency with headquarters in Santa Monica, Calif.

NUCLEAR TESTS CONTINUED

Children who have grown up in an environment of Strontium-90 are absorbing a larger dosage, but it is still less than 0.002 roentgen a year (in addition, all of us receive a roughly equal amount from Cesium-137). At this rate the lifetime dosage for the average American comes to only a small fraction of one roentgen, although in rare cases it might be several times that amount.

If tests continue at the present rate, radiation levels might increase as much as fivefold. But even in this situation it is extremely unlikely that anyone would receive a lifetime dosage of as much as five roentgens from the worldwide fallout.

If radiation in this small amount actually does increase a person's chance of getting bone cancer or leukemia, the increase is so slight that it cannot be measured. Moreover, we have lived all our lives with radioactivity of even greater intensity, most of us without ever being aware of it (*see chart, page 67*). We live on an earth which has radioactivity in its rocks and in its waters and which is continuously exposed to a rain of cosmic particles which produce effects on human beings identical to those from radioactive materials.

The average person living at sea level in the United States absorbs in his bones about 0.15 roentgen of radiation every year from natural sources. Of this amount, about 0.035 roentgen comes from cosmic rays. At higher altitudes the cosmic ray dosage increases. In Denver, at an altitude of 5,000 feet, the cosmic rays contribute 0.05 roentgen per year. The Strontium-90 radiation of about 0.002 roentgen per year from fallout is thus only about 5% of the natural cosmic radiation. It is small even when compared with the variation of cosmic ray intensity between sea level and 5,000 feet.

Is there a correlation between the frequency of leukemia or bone cancer and the intensity of natural radiation? Statistics for the year 1947 show that in Denver, where cosmic rays are relatively intense, the incidence of both diseases was actually lower than it was in the sea-level cities of San Francisco and New Orleans. For leukemia it was 6.4 per 100,000 in Denver, 6.9 in New Orleans and 10.3 in San Francisco. For

bone cancer the incidence was 2.4 per 100,000 in Denver, 2.8 in New Orleans and 2.9 in San Francisco.

The only thing these statistics prove is that radiation in small doses need not necessarily be harmful—indeed, may conceivably be helpful. In either case the effects are so slight as to be virtually unnoticeable.

So far we have been considering only cosmic radiation, but human beings are subjected with no apparent ill effects to natural background radiation from many other sources as well. The radium deposited in our bones from drinking water has an average intensity of 0.04 roentgen per year and may go as high as 0.55—and this is a type of radiation more damaging than that emitted by Strontium-90. It has even been pointed out recently that brick contains enough radioactive materials to give a dosage of 0.04 roentgen per year. The difference between living in a brick house and living in a wood house could give rise to 10 times as much radiation as we are currently getting from fallout.

Human beings absorb radiation not only from natural sources but also from man-made sources. For example, a wrist watch with a luminous dial or X-rays for medical purposes subject us to much more radiation than the fallout.

To see fallout radiation in proper perspective it should be compared not only with other kinds of radiation but also with other dangers to health. Some estimates are, for example, that being 10% overweight seems to reduce a person's life expectancy by 1.5 years, that the life-long habit of smoking one package of cigarettes a day cuts it by seven years, that living in the city instead of in the country reduces life expectancy by five years, and so on. On this statistical scale the reduction in life expectancy from worldwide fallout at present levels totals less than two days. Or, to put it another way, the worldwide fallout is as dangerous to human health as being one ounce overweight, or smoking one cigarette every two months.

Will the fallout danger increase as more nations develop and test atomic weapons? Although it is not easy to predict the future, some factors justify optimism. We are learning how to regulate the fallout by exploding bombs under proper surroundings. Development of clean bombs will greatly reduce the radioactivity produced. Deep underground tests will eliminate fallout altogether. Since fallout is a problem of concern to all the world's inhabitants, we may hope that every nation testing nuclear explosives will employ such safeguards. The rate at which U.S. tests put radioactivity into the atmosphere has declined since 1954, and it is highly probable that this downward trend will continue.

MUCH of what we know about the aftereffects of nuclear explosions was learned following the famous hydrogen bomb tests of 1954. These tests became famous partly because they accidentally gave us our most harrowing experience with radioactive fallout. It is very improbable that an accident of this kind will ever occur again because we know more now than we did then about taking precautions. But in attempting to assess the degree of danger resulting from nuclear tests, we will find the information gathered after the Bikini explosion of March 1, 1954 invaluable.

Bikini lies at the northern rim of the Marshall Islands, with several inhabited islands to the east, west and south. For test purposes a wind from a general southerly direction was essential to blow the radioactive debris into the uninhabited sea to the north. On March 1 the wind was blowing to the northeast. That seemed perfectly safe and near dawn the bomb was exploded.

Almost immediately it became apparent that something had gone wrong. The wind had shifted and was blowing toward the east. In the hours that followed, radioactive dust fell on the naval vessels that were observing the shot from a position south and a little east of the atoll, and then on the islands of Ailinginae, Rongelap, Rongerik and Utirik. Unknown to anyone, the fallout also sifted down over a Japanese fishing boat, *The Fortunate Dragon*, that happened to be northeast of Bikini but was not noticed by patrolling aircraft.

On the naval vessels the radioactivity was dealt with quickly and effectively. The ships were washed down and moved out of the area until the fallout had ended. No one received a dangerous exposure. The only people on Rongerik were 28 American servicemen operating a weather station. They washed themselves, put on extra clothes and remained inside the shelter of their aluminum huts as much as possible during the danger period of fallout. They received a dosage of about 78 roentgens. The 18 Marshall Islanders on Ailinginae received 69 roentgens, and the 157 on Utirik received 14.

Elsewhere, however, the dosage was heavier. Worst hit were the 23 Japanese fishermen. It was not until two weeks after the explosion that the world—and the fishermen themselves—learned that they had been subjected to radioactivity. We do not know precisely what dosage the fishermen received, but the best estimate is about 200 roentgens. One of them has since died, presumably from complications associated with the exposure to radiation, although there is a possibility that his death

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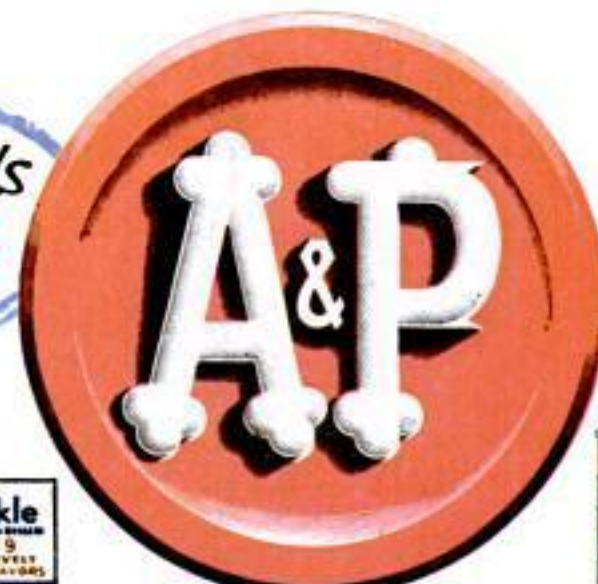
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NUCLEAR TESTS CONTINUED

resulted from a case of hepatitis unrelated to the radiation exposure. The other 22 men are in good health and back at work.

For scientific purposes the experience of the 64 native inhabitants of Rongelap is most significant, for our medical information about them is complete. Although they received about 175 roentgens, they narrowly escaped a much heavier dosage. They happened to be living on the southern part of their island. Ten miles to the north they would have received 400 roentgens, which would have given them only a 50-50 chance of survival. On the northern tip of the island, 30 miles away, the dosage would have been over 2,000 roentgens, which would have meant certain death.

Ever since the incident the people of Rongelap have been living on another atoll where they have been kept under continuous medical surveillance. What happened to them is the best indication we have of the long-term effects of substantial radiation exposure.

In the first 24 hours after they were exposed to the fallout, some of the victims complained of nausea, fever and stomach-ache. But these symptoms abated promptly. There was also some complaint of itching skin and a burning sensation. These symptoms also lasted only a couple of days. Then followed a week or so of comfort and no complaint. After that, skin lesions and loss of hair began to occur. But at the end of six months lost hair had grown out again, unaltered in texture and color, and the skin lesions had healed. Everyone appeared healthy and normal with no apparent aftereffects.

There were four pregnancies among Rongelap women at the time of the exposure. One baby was born dead, but the other three were quite normal. There is no evidence that the stillbirth was due to radiation effects. The normal percentage of stillbirths among the Rongelapese is high and statistically one in four is not an unusual ratio.

The important fact is that today, more than three years after the accident, all of the Marshallese and American victims seem to be fully recovered from a dosage of radioactivity far greater than any humans are ever likely to be subjected to again from a bomb test. Although long-term effects are still being carefully watched for, no malignancies or cases of leukemia have shown up to date.

If fallout radiation from tests is relatively harmless to the individual compared with many risks which we habitually take and almost always ignore, what about the genetic danger to the race?

We transmit our properties to coming generations in a most curious and concentrated fashion. From the mother and the father a child inherits a number of chromosomes. Within these structures are the actual carriers of the properties, the genes. We are beginning to understand something about the nature of the genes. They seem to be big spiral molecules. They carry the master plan of our body and even of our character in a strange chemical code. The significant fact in this discussion is that any gene may suffer a mutation. That is, it may turn into a new chemical, carrying a new code and new properties.

A gene is an extremely finely and precisely constituted object. It must be so in order to carry all the racial past. A mutation due to chance will spoil this order in almost every instance. The great majority of mutations are detrimental because they produce characteristics not suited to the environment in which we live. Many are lethal.

Astonishingly, these random mutations, almost always harmful and never proceeding according to any plan, have nevertheless been responsible in the long run for all the many magnificent living creatures that nature has produced, including the human species. This may seem hard to believe. The biological thread that over the millennia has led from single cells to cell colonies, worms, fishes, vertebrates, mammals and human beings certainly does not seem to be the work of chance. Much less does it seem to be the result of a gamble, taking one chance of a small improvement against a thousand chances of deformity or death. Nevertheless it is just such a terrible game of chance, aided by natural selection, which has produced both the human body and in some manner also the human spirit.

Radiation is certainly disruptive. It does cause mutations. The less

radiation, the smaller the chance of mutation. But the chance will always be there. A very great increase in the natural rate of mutations could indeed have terrifying effects.

We can be quite certain, however, that radiation from atomic tests will increase the chance of mutations by only a very small amount. Most such radiation comes from Cesium-137 which has been deposited in the ground or absorbed by the body. At present rates the tests inflict 0.001 or 0.002 roentgen per year from Cesium-137 on the human reproductive cells. This is equivalent to approximately 0.05 roentgen per generation.

Over the same period background radiation—from cosmic rays or gamma and beta rays emitted by natural radioactive substances in or near our bodies—subjects the reproductive cells to a dosage of about five roentgens. Our best estimate is that 10% of all natural mutations are due to this background radiation (the rest are caused by heat and chemicals). The atomic tests are therefore increasing the number of mutations by only about 0.1%.

These man-made mutations seem even less significant when compared with the high degree of natural radiation endured without noticeable harm by the world's mountain dwellers.

The people of Tibet have been exposed for generation after generation to the intense cosmic radiation which bombards their plateau through a relatively thin layer of atmosphere. Compared with people who live in low countries, the Tibetans have been exposed over the centuries to a much greater additional intensity of radiation than is caused by atomic tests. Yet genetic differences have not been noticed in the humans of Tibet, or for that matter in any other living species there.

It has been repeated often that all genetic mutations due to radiation are harmful. There is every reason to believe that mutations due to radiation are not different in kind from mutations resulting from other causes. Should we then

seriously believe that all mutations are harmful? That most of them are is admitted. To insist that all mutations are harmful, however, would be to deny the simplest facts of evolution.

THE petition of the 9,000 scientists placed great emphasis on fallout danger. But it also expressed the hope that halting the bomb tests "could serve as a first step toward a more general disarmament and the ultimate effective abolition of nuclear weapons, averting the possibility of a nuclear war that would be a catastrophe to all humanity."

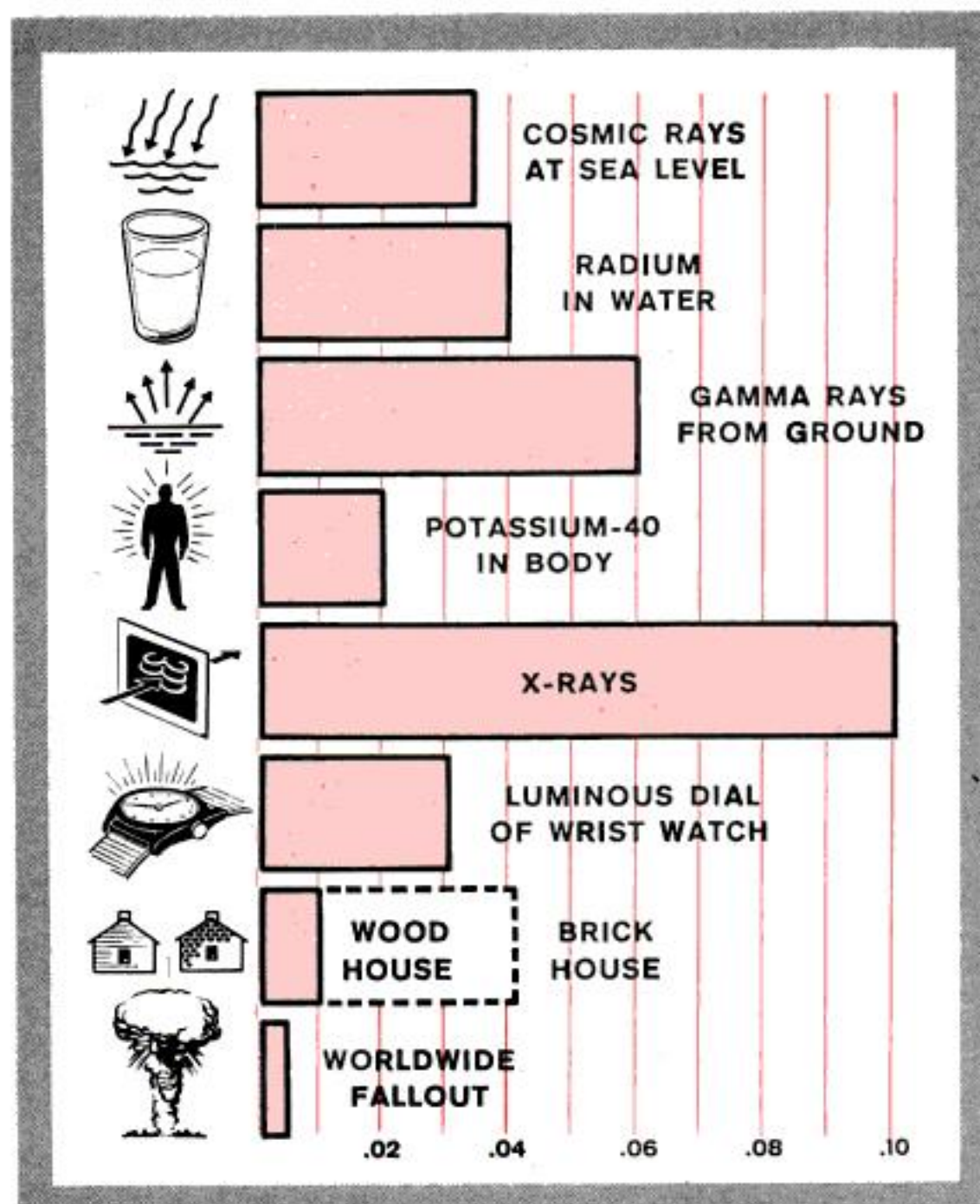
It seems probable that the real root of the opposition to further tests—and not only among the petition-signers—is not so much the fear of fallout as it is this desire for disarmament and for peace.

There can be no doubt that the desire for peace is felt by all thinking and honest people. In the minds of most people it would be an important step in this direction if nuclear weapons tests were stopped by all nations. This belief is widely held, but it is not necessarily well founded.

It has been said that World War I was caused by an arms race. It might as justifiably be said that World War II was brought about by a disarmament race. In the 1920s and 1930s the peace-loving nations divested themselves of their military strength. When Germany adopted a program of rapid preparation for war, the rest of the world was caught unaware. By the time the danger was unmistakable, it was too late to avert a most cruel war, and almost too late to stop Hitler short of world conquest. Unfortunately disarmament is safe only when no one wants to impose his will upon his neighbors by force of arms.

In today's uneasy world no reasonable person will advocate unilateral disarmament. What people hope is that all sides will agree to reduce military power and thereby contribute to a more peaceful atmosphere. The elimination of tests has appeared possible and proper for two reasons. One is that tests are conspicuous, and therefore it is believed that we can check whether or not everyone has actually stopped testing. The second reason is that nuclear explosives already represent such terrifying power that further tests appear irrational. These arguments are simple and almost universally accepted. They are based on misconceptions.

A nuclear explosion is a violent event, but in the great expanses of



RADIATION DANGER to the average person from various sources is shown in chart in roentgens per year (figures at bottom). Wood house, for instance, gives off .01 roentgen, brick house (dotted line) .04. Present nuclear fallout is only .003.



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NUCLEAR TESTS CONTINUED

our world such tests can be effectively hidden if appropriate care is taken to hide them. There can be no doubt that this is possible. The question is only how much it costs to hide a test of any given size.

If an agreement were made to discontinue the tests, the United States would surely abide by it. The social and political structure of our country excludes the possibility that many people would collaborate in breaking an international agreement. Whether the Soviet Union would keep such an agreement would depend on the ingenuity of the Russians, on their willingness to make the economic sacrifices required for expensive secret tests, and on their honesty. Of these three factors we can have a firm opinion about the first: the Russians are certainly ingenious enough to devise secret methods of testing. As to the other questions, each man is entitled to his own opinion. Past experience suggests that any international agreement to stop tests may well be followed immediately by secret and successful tests behind the Iron Curtain.

In a more general way we may ask the question, is it wise to make agreements which honesty will respect but dishonesty can circumvent? Shall we put a free, democratic government at a disadvantage compared with the absolute power of a dictatorship? Shall we introduce prohibition in a new form, just to give rise to bootlegging on a much greater scale? It is almost certain that in the competition between prohibition and bootlegging, the bootlegger will win.

The purpose of nuclear testing

ALL of these arguments, however, would become irrelevant if it were true that further testing would not accomplish any further desirable result. It has been said and often repeated that we now possess enough nuclear explosives to wreck the country of any enemy. What more do we need?

Our main purpose in further experimentation with nuclear bombs is not, of course, to make city-busters more horrible. It is to prepare to make defensive use of nuclear weapons. In particular we must be prepared to use nuclear weapons with proper discrimination in limited wars.

To understand what we are actually trying to do in our tests, we have to take a closer look at some military problems.

The proper role of nuclear weapons in a future war is not the killing of millions of civilians. It is rather to stop the armed forces of an aggressor. This is not easy to do because it requires not only nuclear weapons but very special kinds of nuclear weapons which are hard to develop and harder to perfect. But with proper experimentation and proper planning the defensive use of nuclear weapons is possible.

The idea of tactical nuclear weapons is not new. The possibility of using nuclear explosives in small wars has been frequently discussed. What kind of weapons do we need in order to fight these small wars and to defend the freedom of people wherever such defense becomes necessary? It has often been suggested that in small wars small weapons will be used, while big weapons are appropriate

for big wars. Such a statement is much too simple and has no relation to reality. In every case the right kind of weapon is the one which performs the job of stopping the enemy's armed forces without inflicting unnecessary damage on innocent bystanders. For this purpose we need a great number of weapons which are adaptable to specific purposes, which are easy to transport and easy to deliver, and which do whatever job the situation may require.



DR. LINUS PAULING, U.S. chemist, originated scientists' petition urging an end to nuclear tests.

For instance, a nuclear weapon may be carried by a fighter plane and used to shoot down an attacking bomber. Since the carrying capacity of the fighter plane is severely limited, the weapon used for this purpose must be both small and

light. A major objective of the U.S. nuclear test program is to develop such purely defensive, highly mobile weapons.

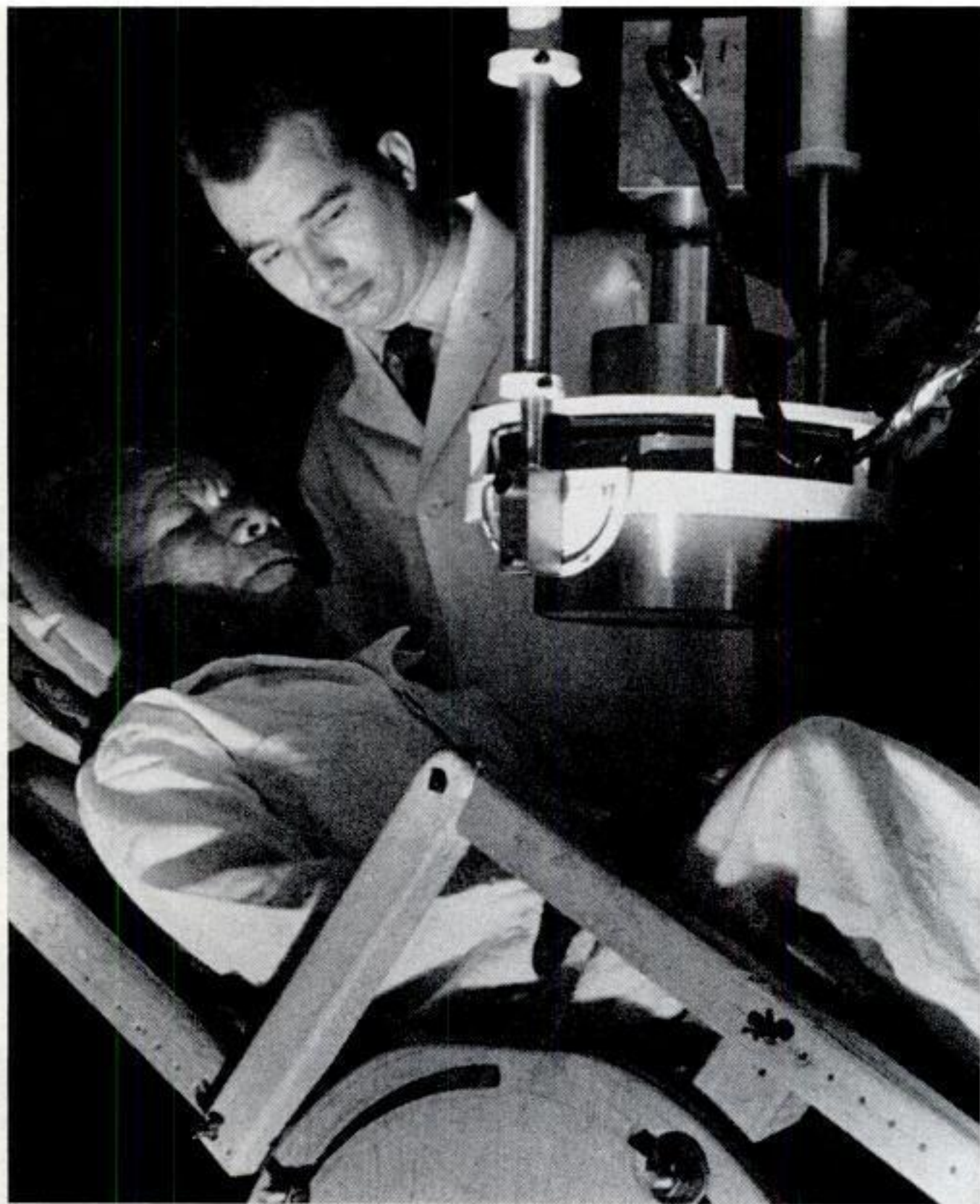
The encounter between the fighter plane and the bomber may well take place in our own country over populated areas. What would happen then to the population underneath the explosion? Fortunately we know the answer. In a recent nuclear test in Nevada five Air Force officers and an intrepid civilian photographer demonstrated that under such circumstances there is complete safety for people on the ground. They did this by standing directly beneath the explosion at ground zero.

This important test took place only a short time ago—on July 19, 1957. An F-89 jet fighter plane flying at 19,000 feet above sea level

delivered an air-to-air atomic rocket to a preassigned point in the sky. The ground zero men were 15,000 feet immediately below. They wore no helmets, no sunglasses and no protective clothing.

At the instant of the explosion the men looked up, saw the fireball and felt the heat. Then they waited for the shock wave to arrive—approximately 10 seconds. When the shock came, it was actually just a loud noise.

After the blast and heat waves had passed, the Air Force men stood their ground. One question still remained: would there be any



RADIATION VICTIM from Marshall Islands exposed to heavy fallout in 1954 test is examined in Chicago. He suffered no apparent lasting harm.

fallout? They checked their radiation instruments and waited while the cloud drifted slowly away. There was no significant rise in the radiation level. The radioactivity, which normally condenses on dust particles sucked up from the ground, did not find big enough particles because of the height of the explosion and was blown away harmlessly. The test had been a complete success. The effects of the explosion were utterly insignificant on the ground. But high in the air an enemy plane could have been demolished, even if the nuclear explosion had missed it by a considerable distance.

For nuclear weapons to be effective against armed invaders great numbers of them must be used. With present weapons such numbers will produce a considerable amount of radioactive contamination over a wide area, and this contamination will endanger the safety of friend and foe alike. In particular the radioactivity is likely to kill people in the very country whose liberty we are trying to defend. For this reason it is most important that we should be able to use nuclear weapons which cause the least possible contamination. In recent nuclear tests more and more attention has been paid to the development of such clean weapons, and most fortunately these efforts are well on the way toward success.

In order to produce nuclear weapons with minimum radioactivity we must continue our tests. The fallout from such tests is slight. But the danger from fallout in a nuclear war involving present weapons would be real and great (and as long as this danger exists, it may be added, we should protect ourselves from it by constructing shelters). If we stop testing now and if we should fail to develop to the fullest possible extent these clean weapons, we would unnecessarily kill a great number of noncombatants in any future war. Not to develop the explosives with the smallest possible radioactive fallout would, indeed, be completely inexcusable.

The only alternative to clean weapons is to avoid the use of nuclear weapons entirely. Since these weapons have been presented as purely

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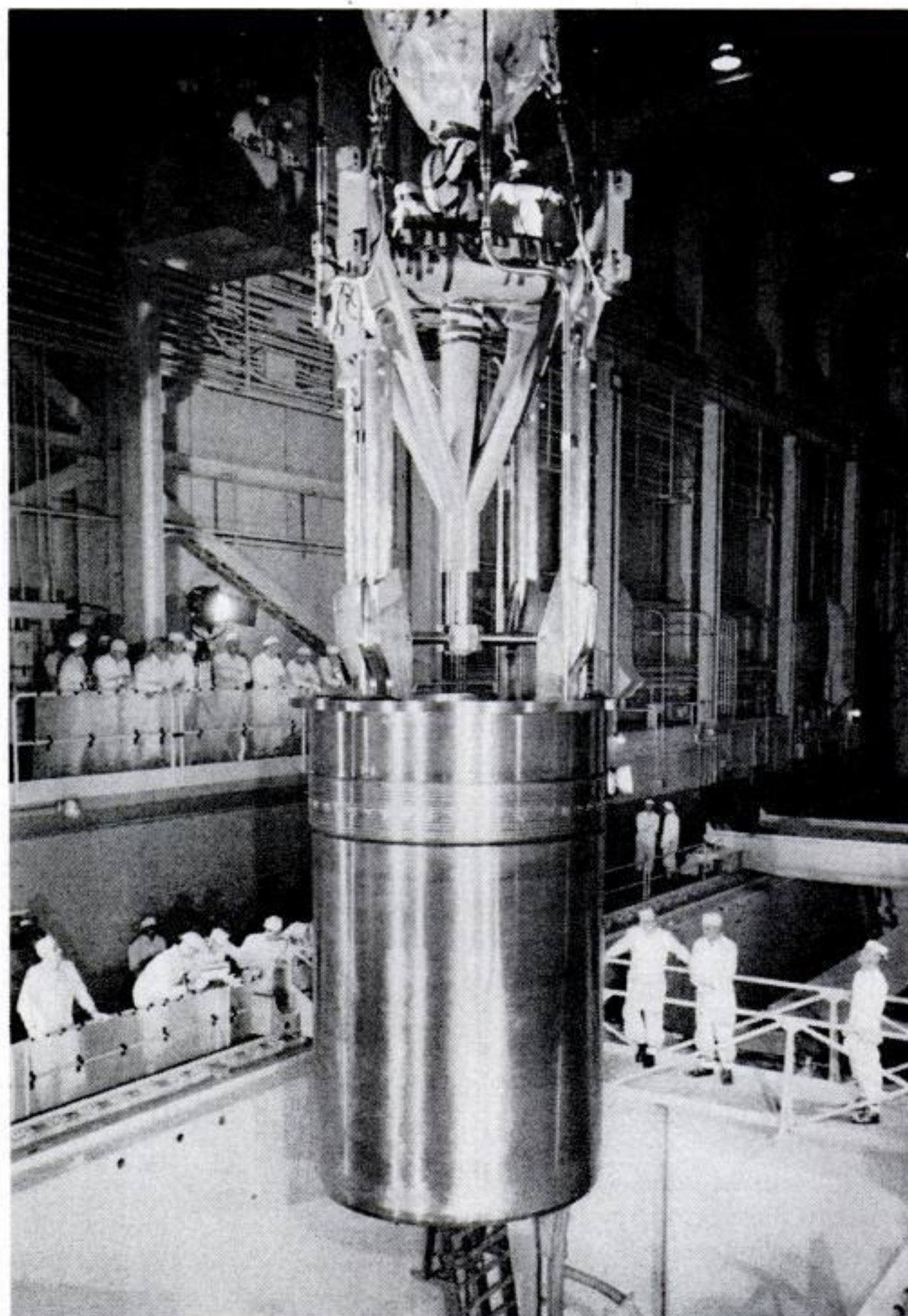
evil instruments, most people hope that they will never be used and indeed that wars themselves will be avoided.

But in our conflict with the powerful Communist countries which strive for world domination, it may be too much to hope for uninterrupted peace. If we abandon our light and mobile weapons, we shall enable the Red bloc to take over one country after another, close to their borders, as opportunities arise. The free nations cannot maintain the massive armies which would be required to resist such piecemeal aggression. On the other hand, the flexible power of clean nuclear explosives would put us in a position where we could resist aggression in any part of the world, practically at a moment's notice.

The announced policy of our country is to maintain peace and stability in the world. By being patient and prepared, we are trying to arrive at a world order based on law and justice for all peoples. There is no doubt that this policy is supported by the overwhelming majority of Americans. Our armed forces need the greatest possible flexibility in order to give strength to this policy. We can possess such flexibility only if we have in our possession the strongest, best developed weapons—and the cleanest, so that they may be used for defense rather than for random destruction.

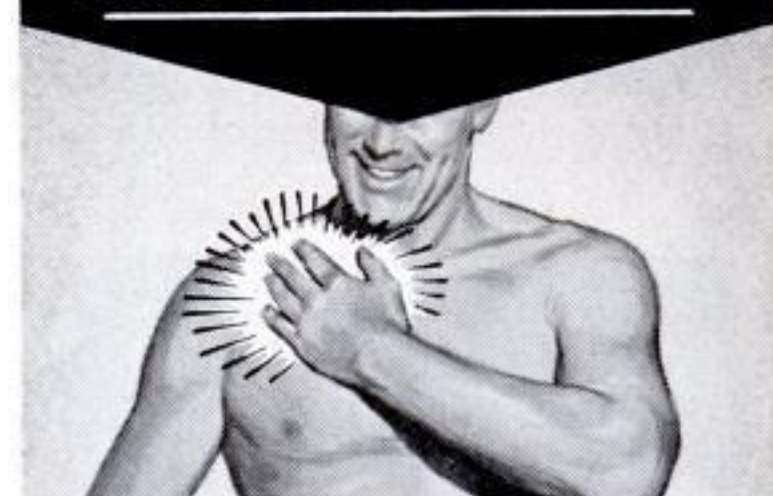
If we renounce nuclear weapons, we open the door to aggression. If we fail to develop clean explosives, we expose people to disaster from radioactive fallout in any serious military conflict. These are weighty arguments in favor of continued experimentation and development of nuclear weapons.

One more thing remains to be said. The spectacular developments of the last centuries, in science, in technology and in our everyday life, have been produced by a spirit of adventure, by a fearless exploration of the unknown. When we talk about nuclear tests, we have in mind not only military preparedness but also the execution of experiments which will give us more insight into the forces of nature. Such insight has led and will lead to new possibilities of controlling nature. There are many specific political and military reasons why such experiments should not be abandoned. There also exists this very general reason—the tradition of exploring the unknown. It is possible to follow this tradition without running any serious risk that radioactivity, carelessly dispersed, will interfere with human life.



NUCLEAR POWER, an outgrowth of bomb experiments, is produced by uranium core being lowered into place at Shippingport, Pa. electric plant.

MUSTEROLE with GM-7 Brings Faster Relief to **COLD'S ACHES, MUSCLE PAIN**



Rub on modern-formula Musterole and feel better fast! Its amazing pain reliever, GM-7 (glycol monosalicylate), plus stimulating oil of mustard speeds its famous "baked heat" comfort action. Musterole warms, soothes and relaxes sore, stiff muscles; eases local congestion and cold's aches.

Musterole also eases aching back and strains, and repeatedly helps minor pains of rheumatism, neuralgia. Regular, Extra Strong and Child's Mild. Save—buy large size tubes.

MUSTEROLE

World's Largest Selling MEDICATED FAMILY POWDER

Mexsana soothes, prevents minor rashes, diaper rash, shoe rub. Gentle medication checks skin surface bacteria.

Absorbent, pure cornstarch base clings close to skin, guards against chafe. 39¢, 79¢, \$1.29.



SORE THROAT?

**Antibiotic
Candettes**
give immediate
soothing relief!



CANDETTES work 2 ways:

1 Double Antibiotic action... fights germs! Not just one—but *two* safe, proven antibiotics kill many irritation-causing throat germs, *on contact!*

2 Anesthetic action... relieves soreness! A safe and effective anesthetic acts instantly to relieve soreness of inflamed membranes.

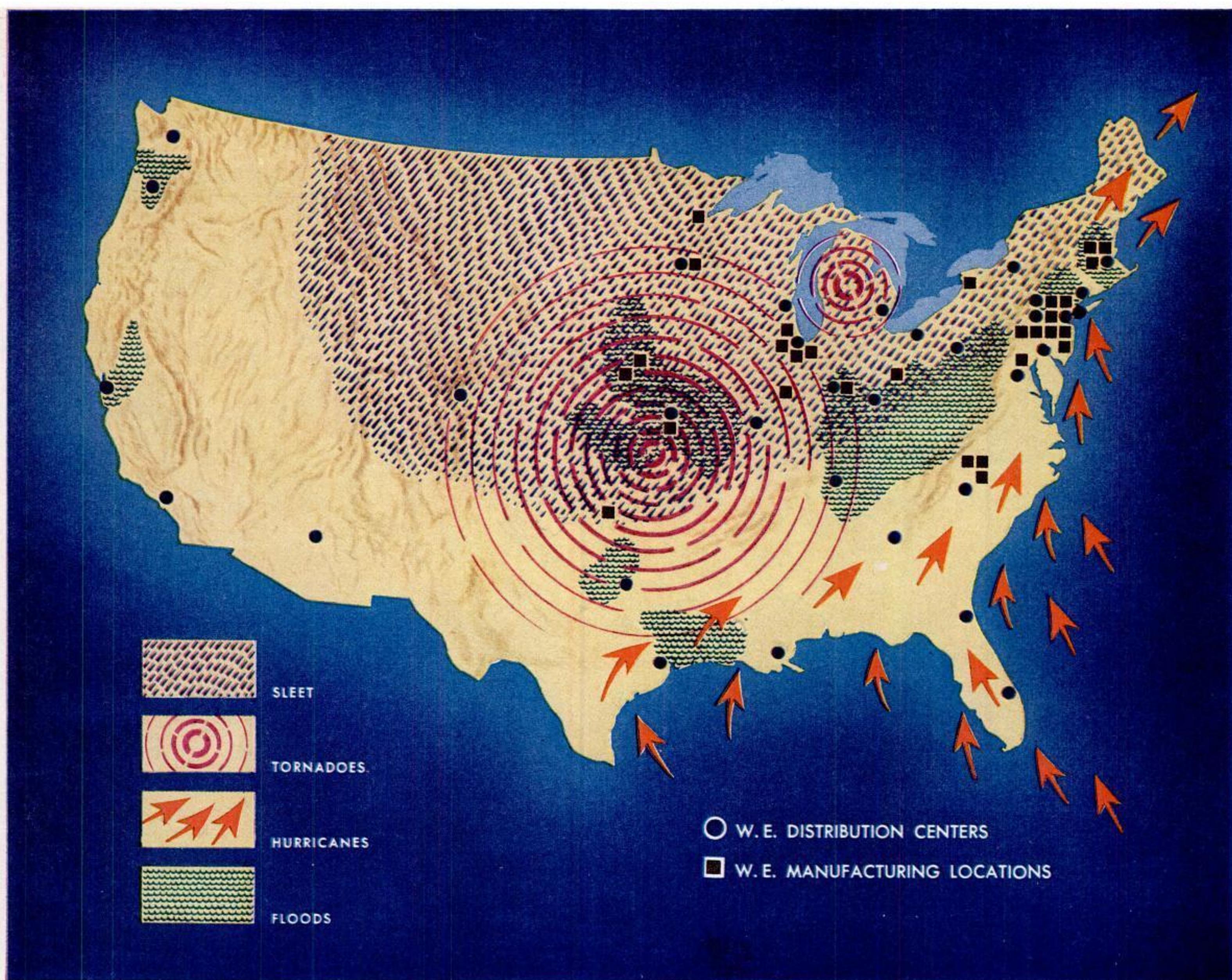
Not an ordinary cough drop—delicious, orange-flavored Candettes are a proven medication! Get them at your drug store.



Candettes

By the World's Largest Producer of Antibiotics

BATTLE PLAN...to chase trouble off telephone lines!



This map shows where Mother Nature is most apt to attack Bell telephone equipment. It also shows how we at Western Electric are set up to help telephone people launch immediate counterattacks against catastrophe.

At the first hint of trouble—from hurricane, flood, sleet, tornado—any operating telephone company can draw on emergency stores of wire, cable, tools and other equipment we keep on tap at a Western Electric distribution center nearby. Every switchboard, tool and strand of wire is standard—familiar to Bell telephone people the country over, and readily put to use.

Meanwhile—by plane, by train and by truck—critically needed items of tools and equipment are started into stricken areas from other Western Electric distribution centers, from our factories and from our suppliers... both to help meet the emergency and replenish depleted stockpiles. Thus the efforts of our people and telephone company people fuse into one great battle plan to restore service fast.

Here's further evidence that Western Electric shares the Bell System goal of providing you—at all times—with good, dependable telephone service... something we and your Bell telephone company together have been working at for the past 75 years.

Western Electric
MANUFACTURING AND SUPPLY UNIT OF THE BELL SYSTEM

Chili



Easy to rustle up with Hormel Chili and Pillsbury Hot Roll Mix!

Like Pizza? Like Chili? Then you'll adore Chili Pizza! Imagine a crisp crusty yeast base, crowned with zesty-flavored chili (with beans or without). Rich and meaty . . . gets you kisses and compliments every

time! So try it . . . and vary it with your own extra touches if you like. The fixin's easy, with versatile Pillsbury Hot Roll Mix and beef-rich Hormel Chili. Your grocer has both. Get yours today!

Pizza



CHILI PIZZA:

- Prepare.....** Pizza dough according to directions on the new 25-recipe folder inside every Pillsbury Hot Roll Mix package.
- Divide.....** dough; flatten. Pat into four greased 9" or 10" piepans (or roll into two parts to fit two greased baking sheets or pizza pans). Brush with oil.
- Spread.....** with two 15½ oz. or four 8 oz. cans Hormel Chili (the chili that's not too hot, not too mild, but just right). Sprinkle with garlic salt, oregano.
- Top.....** with shredded or sliced Cheddar or Mozzarella cheese and a few sliced stuffed green olives. Vary your topping, if you like, with chopped pimiento, onion rings, sliced tomatoes sprinkled with grated Parmesan or Romano cheese, mushrooms, chopped green pepper.
- Bake.....** at 450° 15 to 20 minutes until filling bubbles and crust turns a golden brown. Sprinkle with chopped parsley, if desired. Cut into wedges; serve piping hot.



PILLSBURY HOT ROLL MIX
... the most versatile mix of them all!

HORMEL is the word for chili
(America's best-loved brand)

Quality at your feet...



Now! your favorite Peekaboo Pigs
come softer...hold their shape...and they
fit like Naturalizers always do!

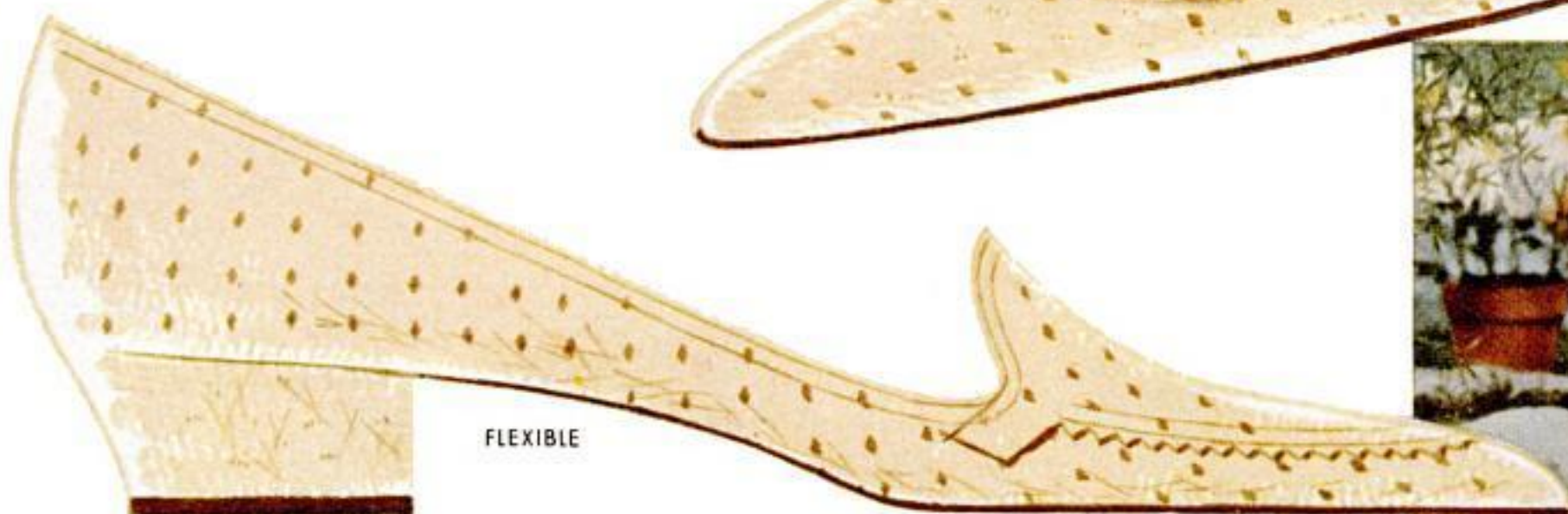


HEEL-HUGGING, TOE-FREE FIT



VIKING

LOOKS GOOD FROM ANY ANGLE



FLEXIBLE



COMPLETE FLEXIBILITY



LAREDO

Peekaboo Pigs

in three perfect walking heels.
The color is alabaster.

*Shoes illustrated, 11.95 and 12.95.
Other styles, 9.95 to 13.95.
Higher Denver West and Canada.*

Naturalizer
THE SHOE WITH THE BEAUTIFUL FIT[®]

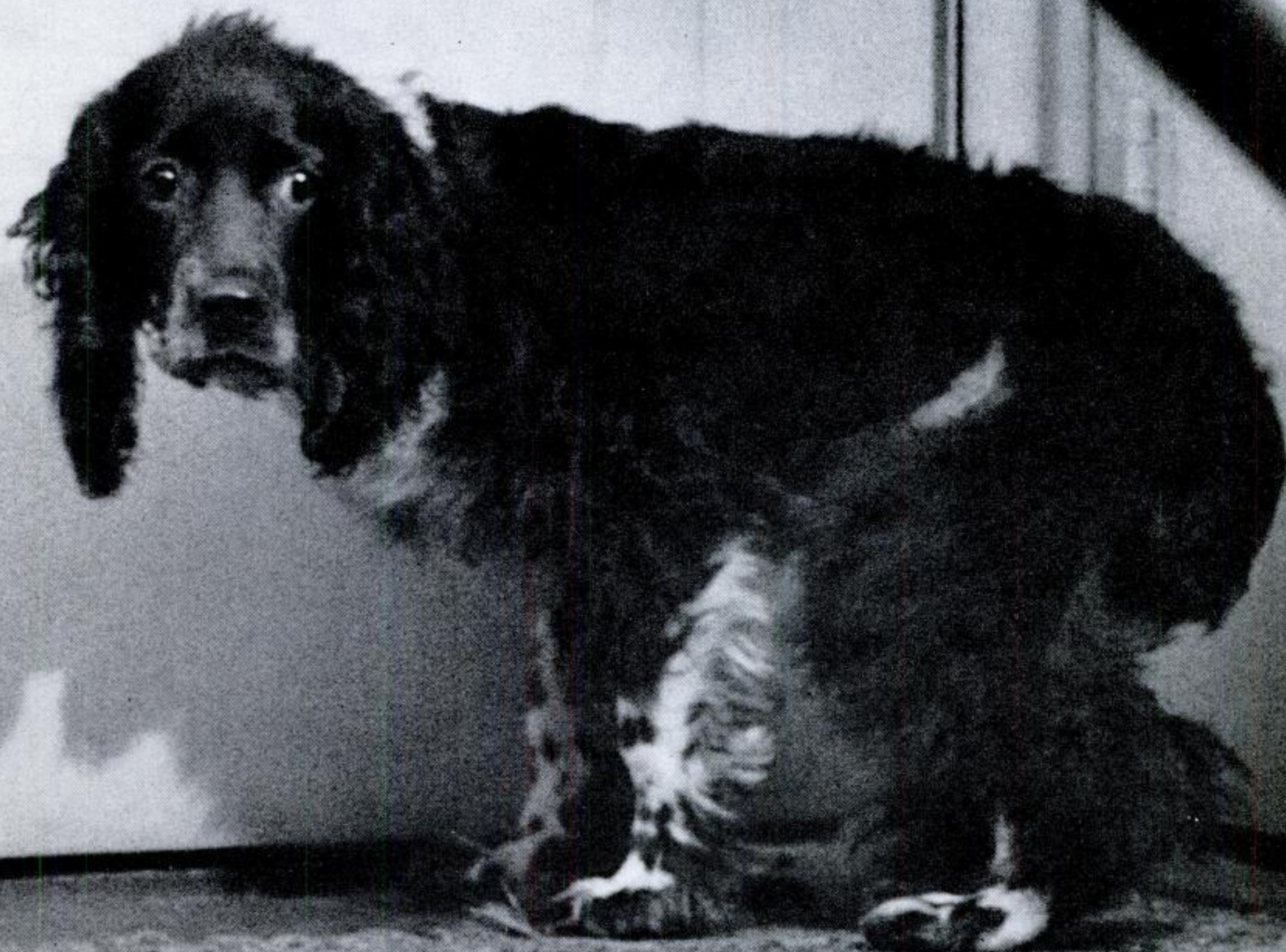
FOR NEAREST DEALER WRITE NATURALIZER DIVISION, BROWN SHOE COMPANY, ST. LOUIS • ALSO MANUFACTURED IN CANADA BY PERTH SHOE COMPANY, LTD., PERTH, ONTARIO.

Sad Degeneration of Our Dogs

OVERPOPULARITY RUINS THE BREEDS

Success, like a chicken bone, is bad for dogs, and in trying to win it for his pets, man has proved to be anything but dog's best friend. The more prestige a breed gets the worse its future becomes. If the cocker spaniel cowering in a corner below, afraid of a vacuum cleaner, could know this and tell other dogs, it would establish a dangerous trend. At next week's Westminster Show in New York dogs would snarl at judges and scratch inelegantly at imaginary fleas—do anything to keep from being the current vogue.

The cocker is but one breed that surged ahead in the popularity derby (*pp. 80, 81*), then degenerated because of careless breeding practices. Since its heyday in the 1940s the cocker has changed in too many cases from an alert, friendly dog into a breed of quivering neurotics—shy, nippy, nervous. One judge says that he is more likely to be bitten by a cocker in the ring than any other breed. But he would rather be bitten by a cocker than some of the other casualties of success which are shown on the following pages.



CONTINUED



ERRATIC SHEPHERD straining at its leash shows results of breed's deterioration. It is easily alarmed

and upset. "Dogs like this can become fear biters," says trainer, "which is worse than being vicious."



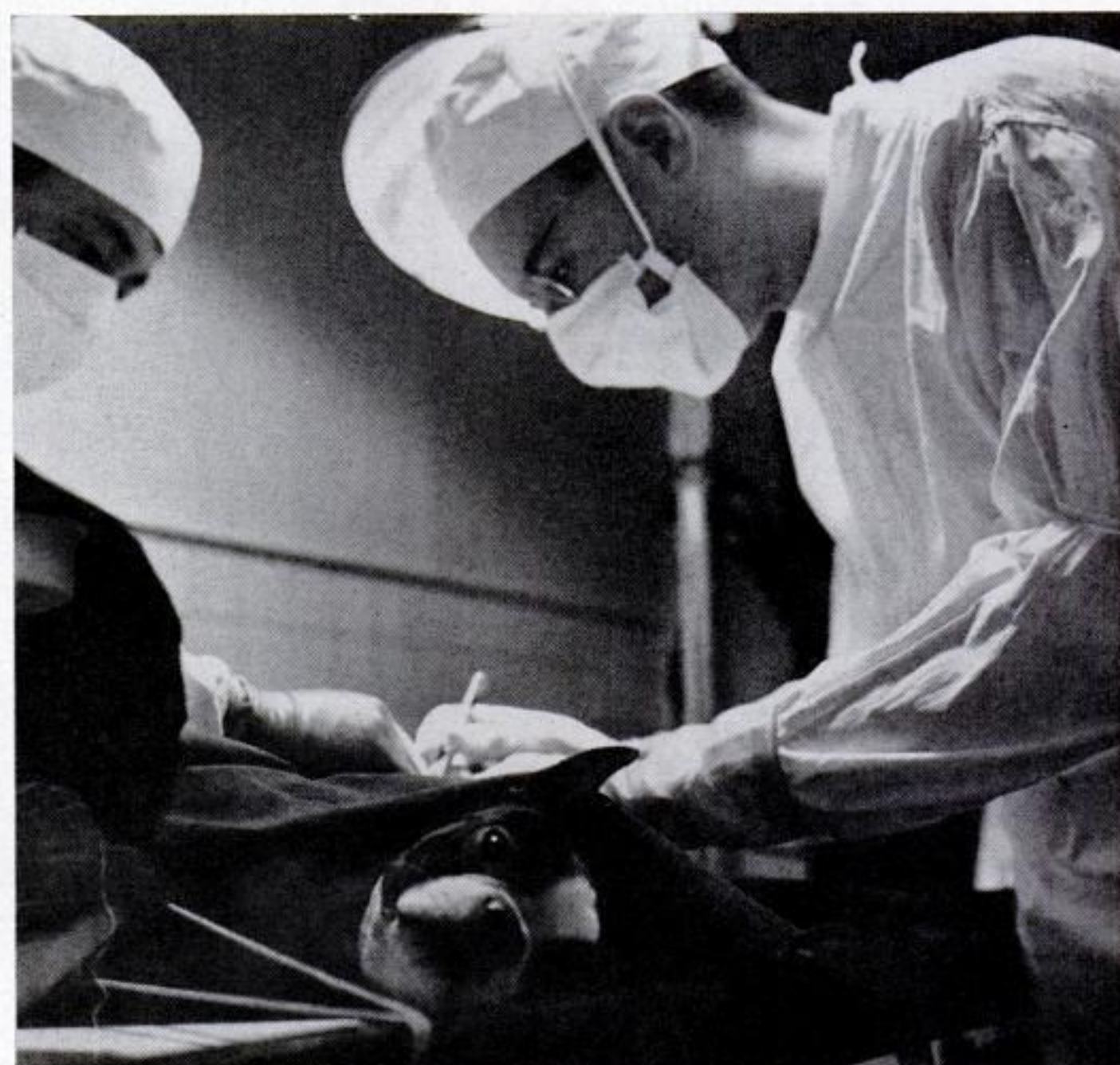
CRINGING SHEPHERD tucks its tail between legs at the approach of a strange woman and child. Once

ILL-BEHAVED RESULTS OF BAD BREEDING

The indiscriminate breeding practices that are responsible for ruining dogs follow almost automatically when a breed becomes popular—either from triumphs in the show ring or from the presence of one in the White House or from stardom on television. There is a sudden huge demand. The selective breeding that went into building up the strain is forgotten by kennels eager for a quick profit. Instead of mating only the best of a litter, many breed every dog regardless of its defects. After a generation or two the amateurs get into the act, pairing their pet with the one down the block and another good breed has gone to the dogs.

The higher a dog rises in public favor the more devastating its downfall. None has soared higher or fallen harder than the German shepherd. In the early 1920s, thanks to military heroics and the screen exploits of Rin Tin Tin, three of every four dogs registered with the American Kennel Club were shepherds. But the effect of assembly-line reproduction (*above*) soon became apparent, both physically and temperamentally.

Along with the careless breeders there are some who go too far in another direction, deliberately breeding dogs to heighten show-winning characteristics. This can result in Boston terriers like the one shown at right, whose hips are so thin that it cannot give birth by natural method—and produces other canine physical weaknesses described on page 82.



CAESAREAN BIRTH is standard in many dogs because of breeders' insistence on large heads, small hips. Here Boston terrier, commonly affected, has operation.



the most intelligent and tractable of breeds, it was a fearless protector. Now it frequently looks for

protection. "Their minds don't always work right," says one authority on shepherds. In addition many

shepherds are poorly developed physically. A most common sign of its decline is weak hindquarters.



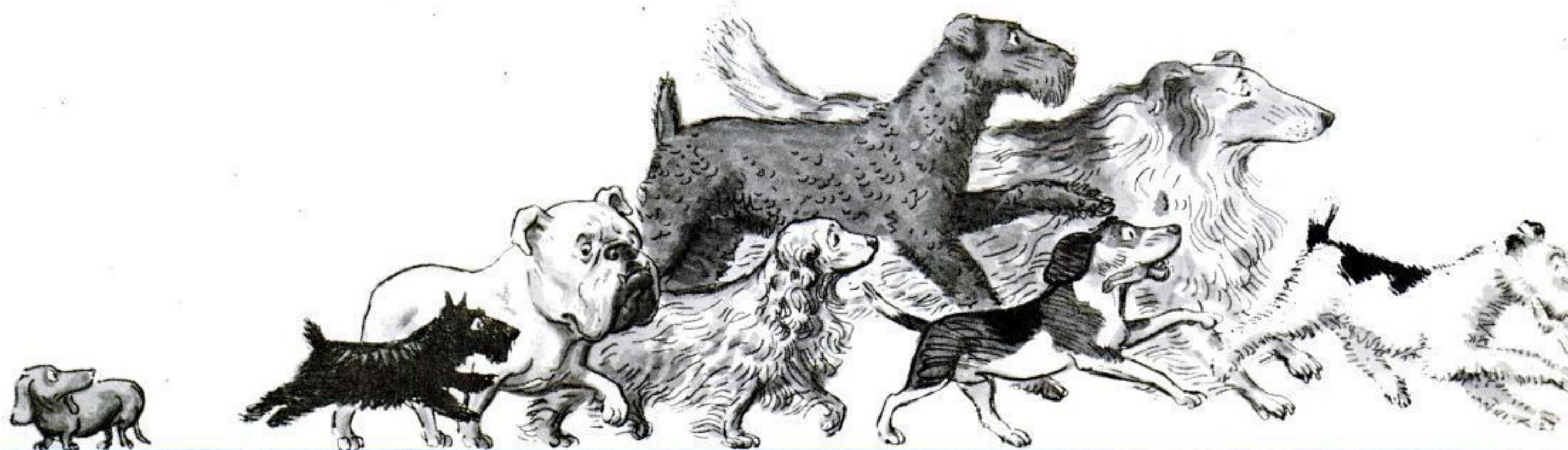
DESTRUCTIVE HABIT, understandable among puppies, is a defect in adults like this toy poodle who does a workmanlike job of ripping up a bed pillow.



SHRINKING VIOLET among dogs is the great Dane which quivers at approach of a tiny poodle. The once brave Dane was originally bred to hunt wild boars.

THE CHANGING LEADERS IN THE CANINE

1925



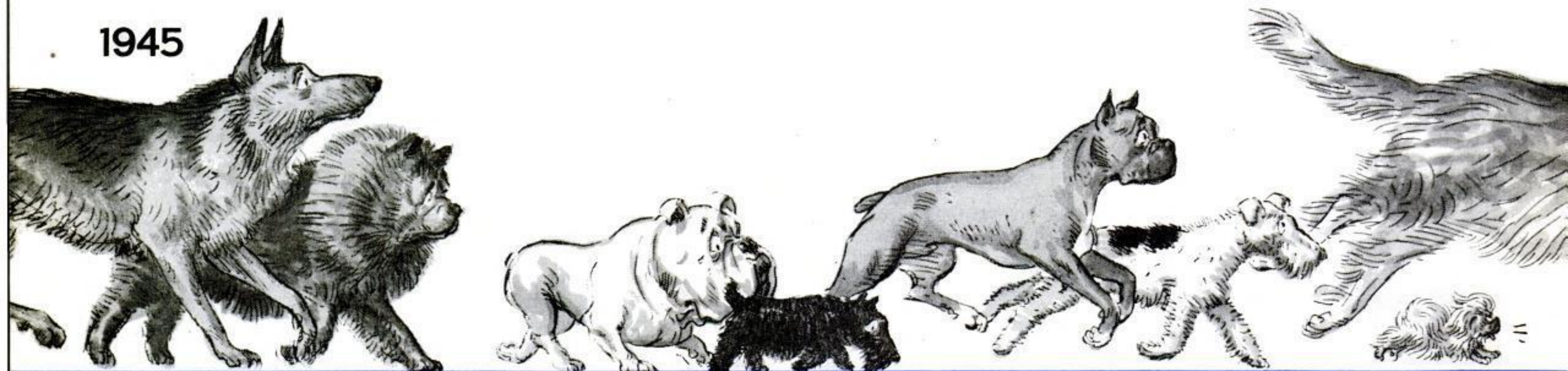
AFTER WORLD WAR I, POPULARITY RACE WAS LED BY SHEPHERD, FOLLOWED BY BOSTON TERRIER, CHOW CHOW, PEKINGESE, FOX TERRIER, COLLIE, BEAGLE,

1935



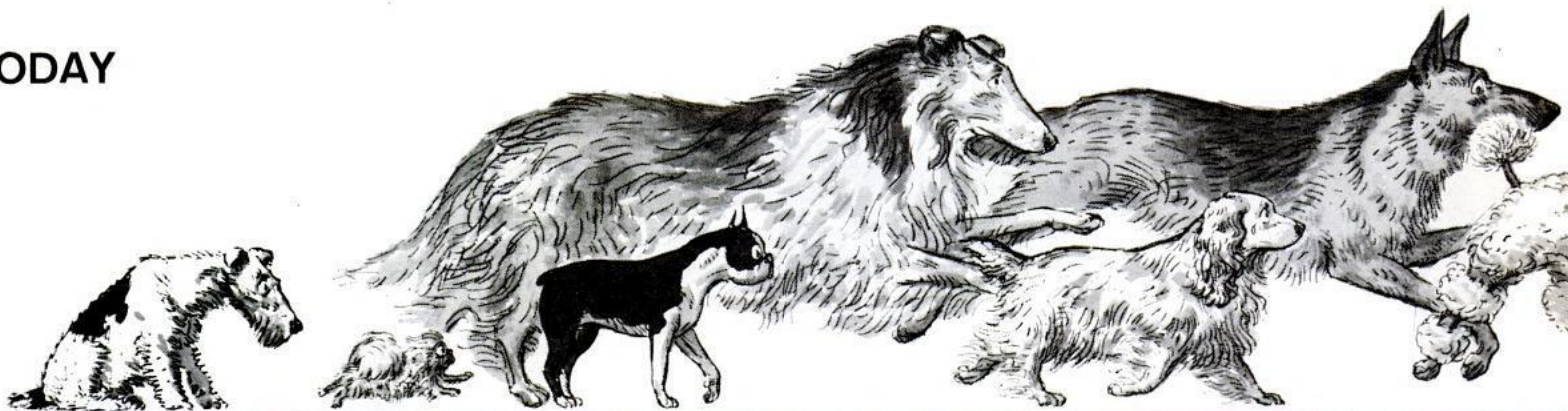
THE SHEPHERD TRAILS THE LEADING BOSTON TERRIER, COCKER SPANIEL, SCOTTISH TERRIER. POMERANIAN AND SPRINGER SPANIEL MAKE ONLY APPEARANCE

1945



THE REGAL COCKER SPANIEL, WHICH REMAINED AMERICA'S FAVORITE LONGER THAN ANY OTHER MODERN DOG, STRUTS IN FRONT OF THE BEAGLE. THE BOXER

TODAY



THE GERMAN SHEPHERD, NOW MAKING A COMEBACK, PASSES THE COCKER. BULLDOG AND CHOW CHOW DROP OUT. DELICATE "CITY" DOGS—THE CHIHUAHUA,

POPULARITY RACE RESULTS for the past three decades show that fads in the 112 recognized breeds

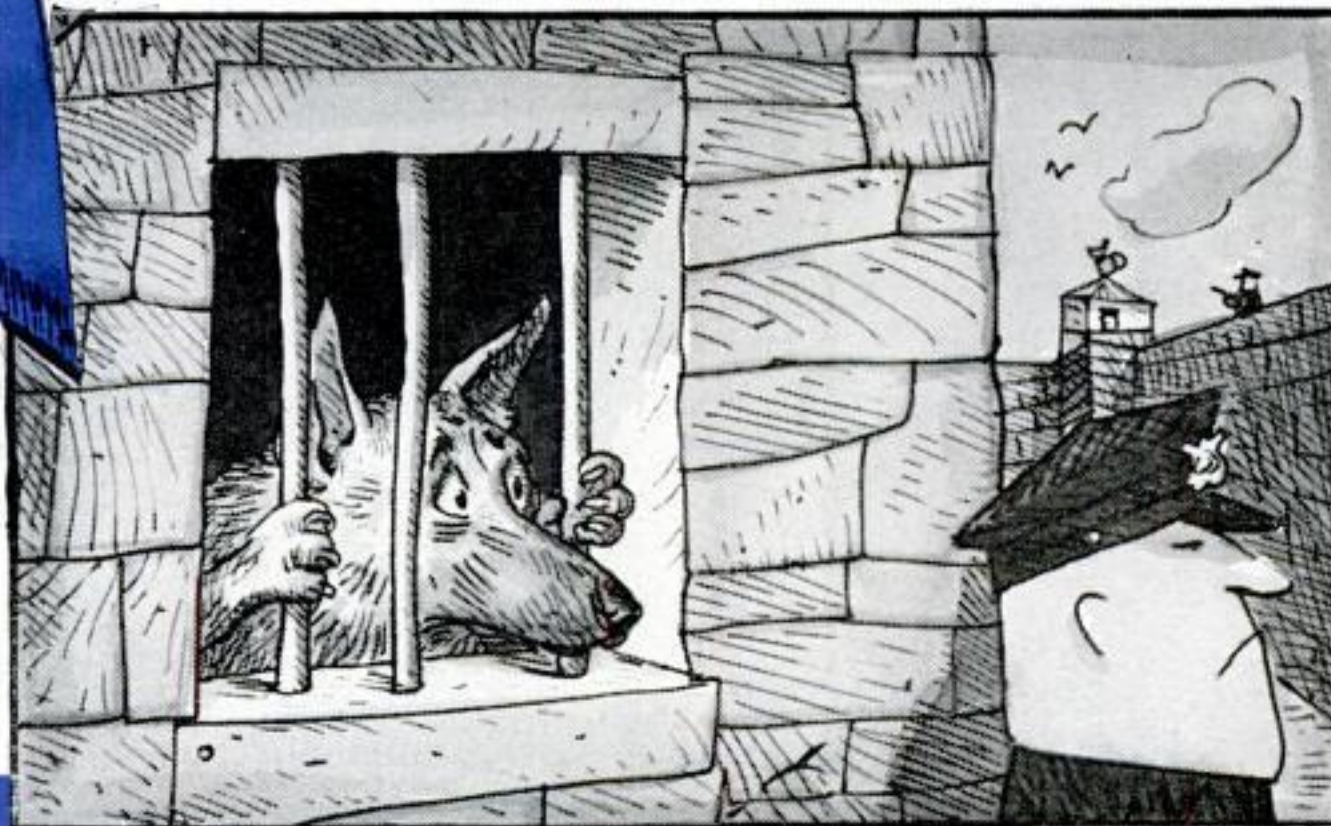
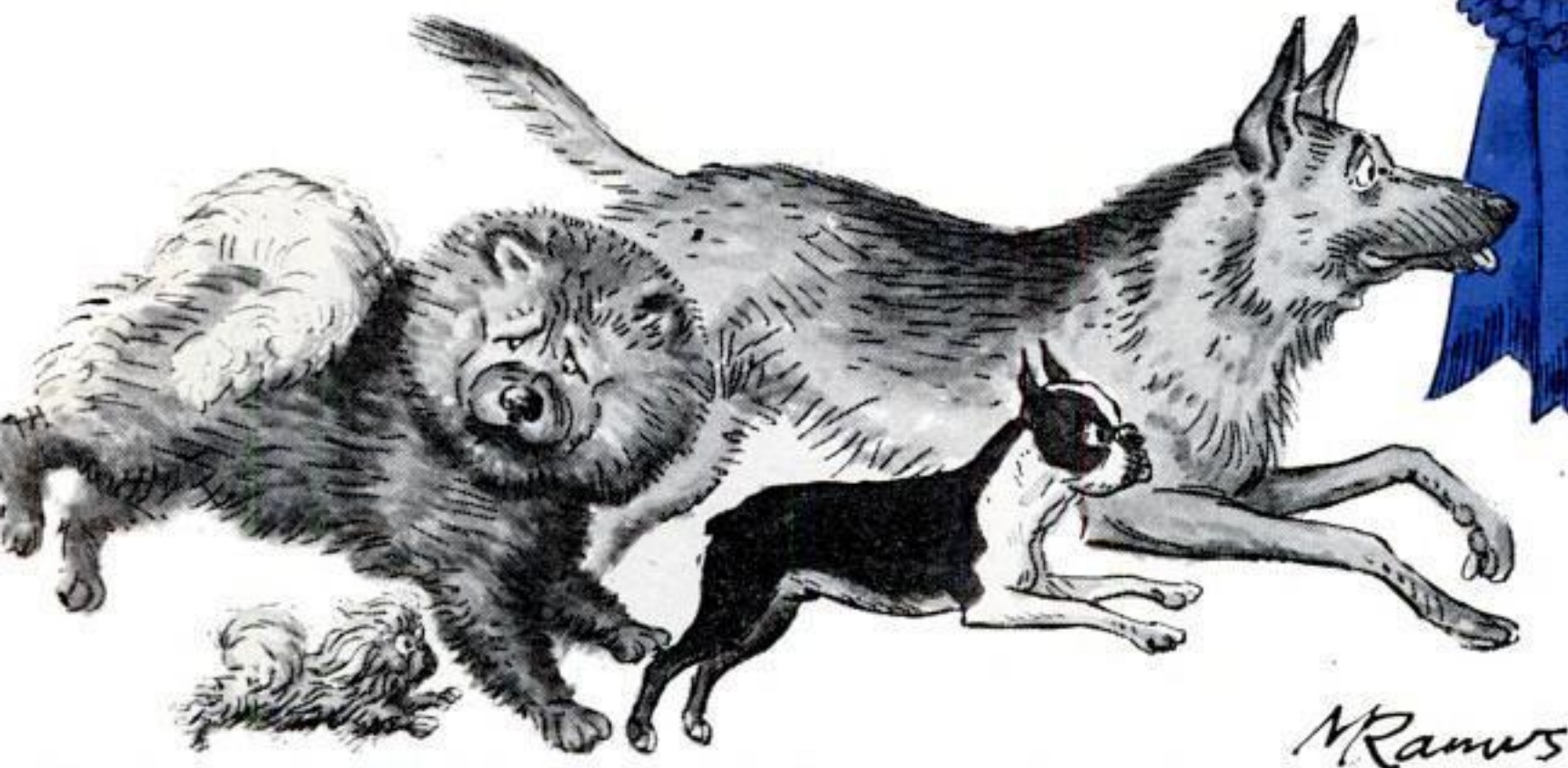
change as sharply and suddenly as fashions in women's clothes. The results illustrated above are based

for the most part on purebred registrations with the American Kennel Club, which have jumped

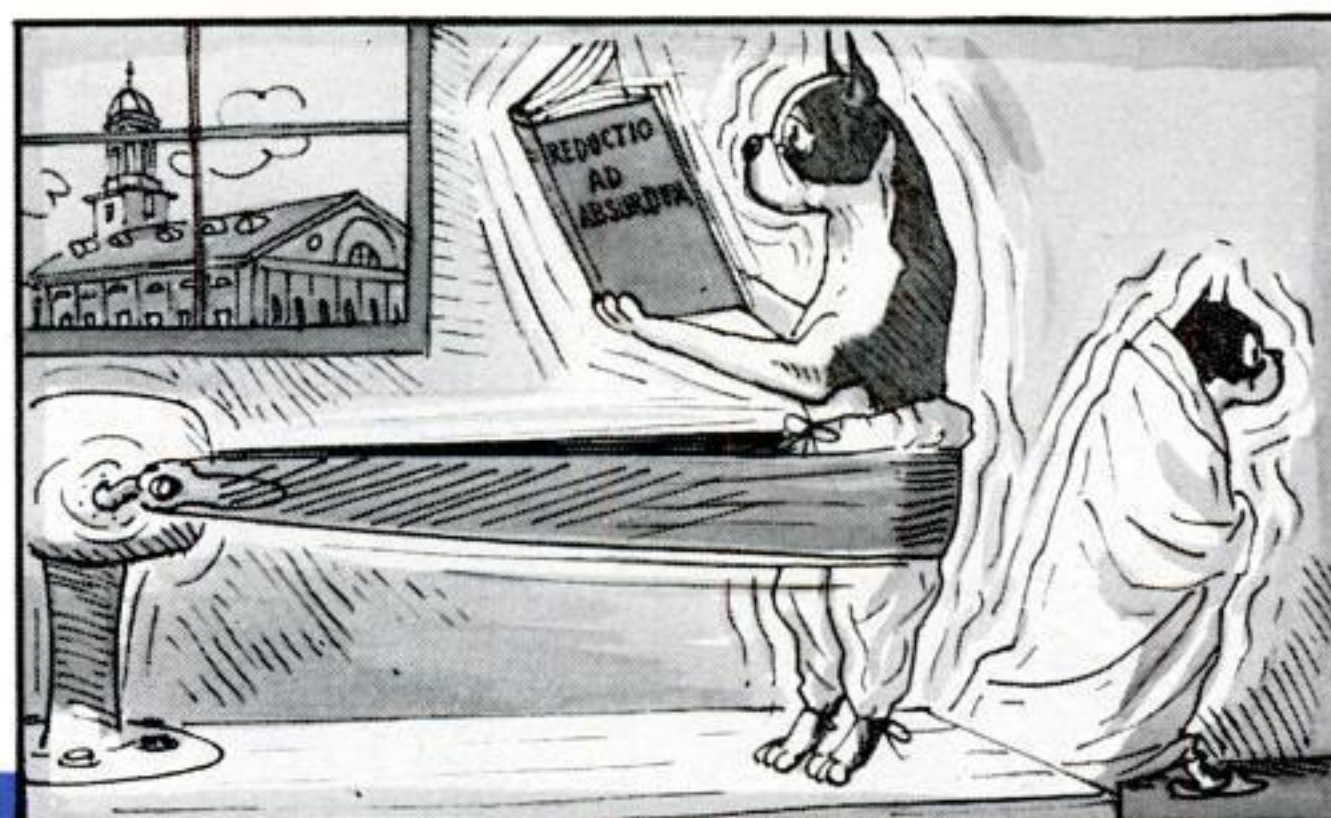
DERBY, ALL HEADING



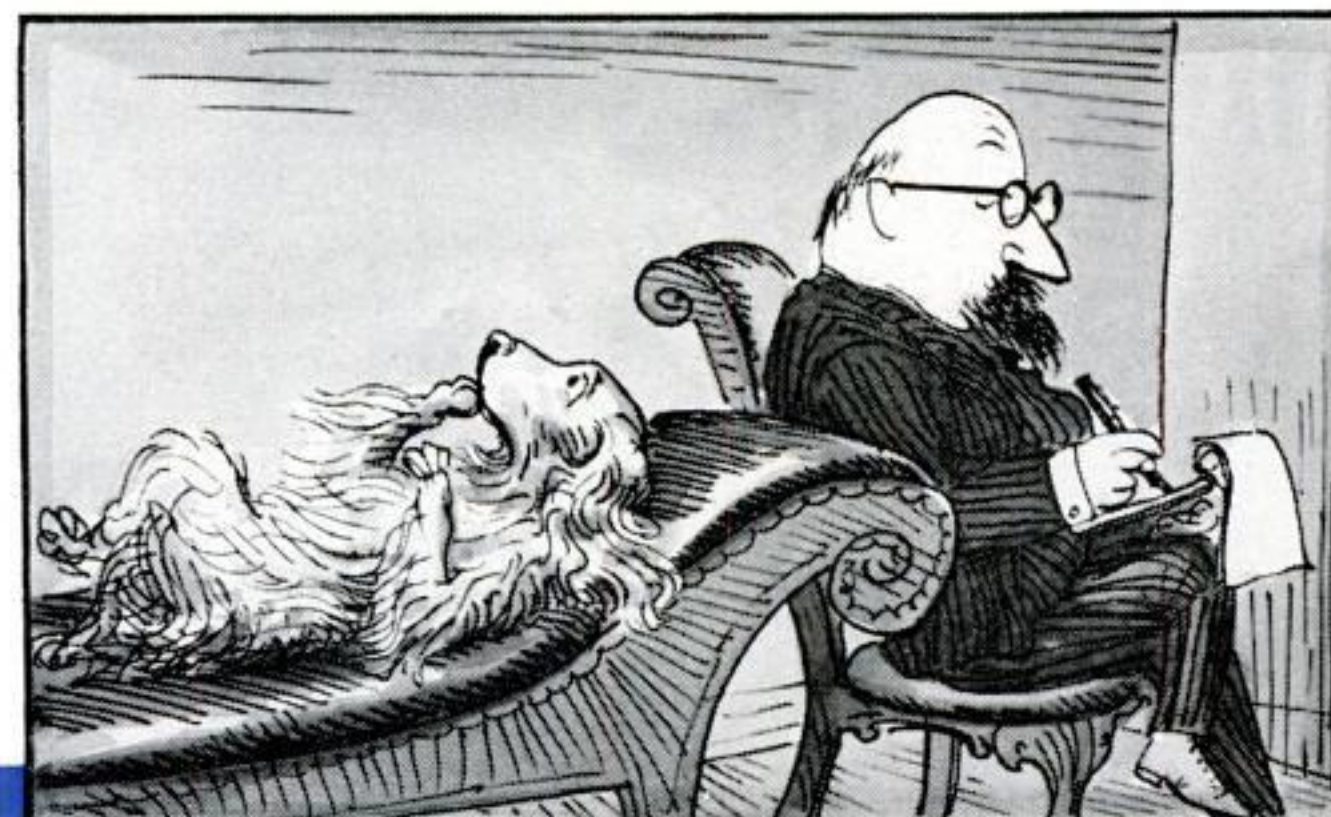
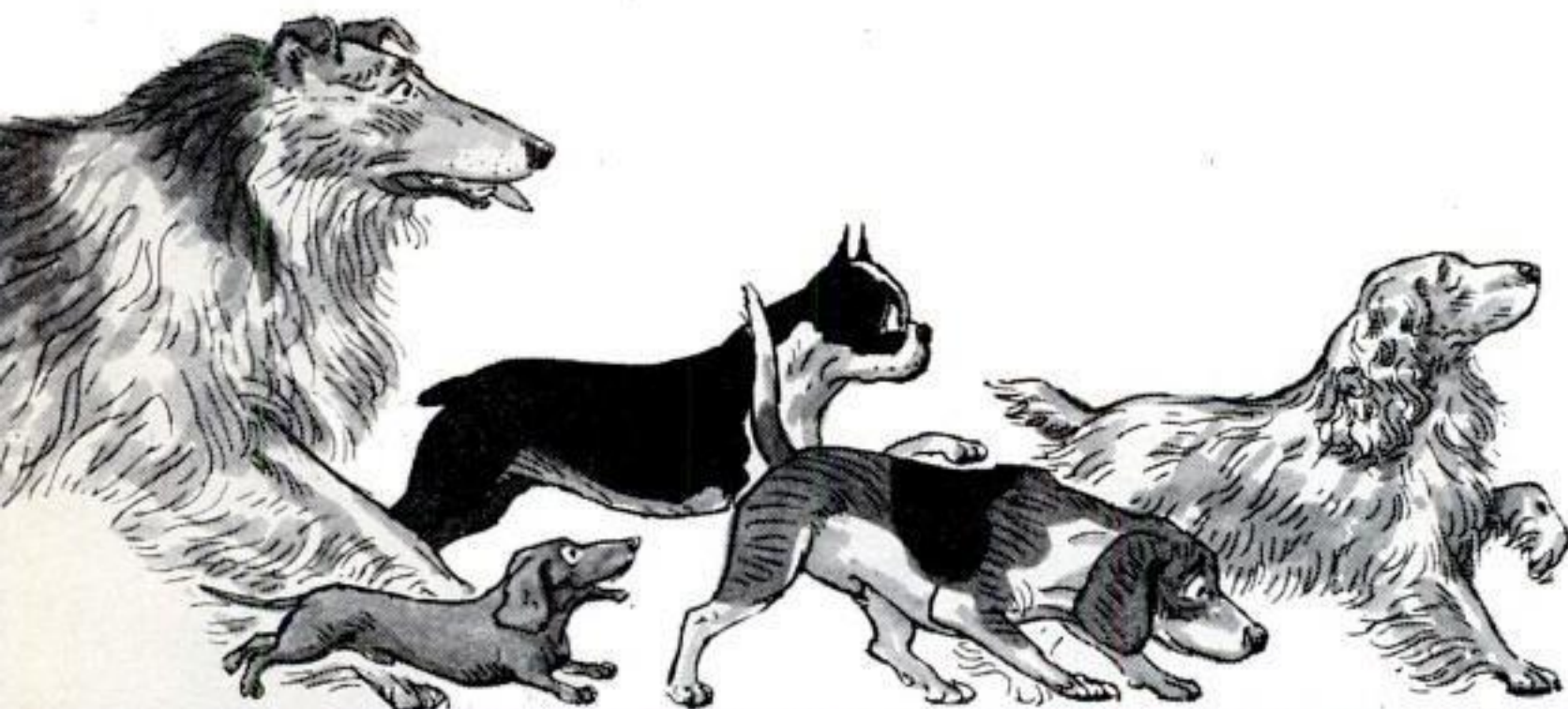
...FOR CERTAIN FALL



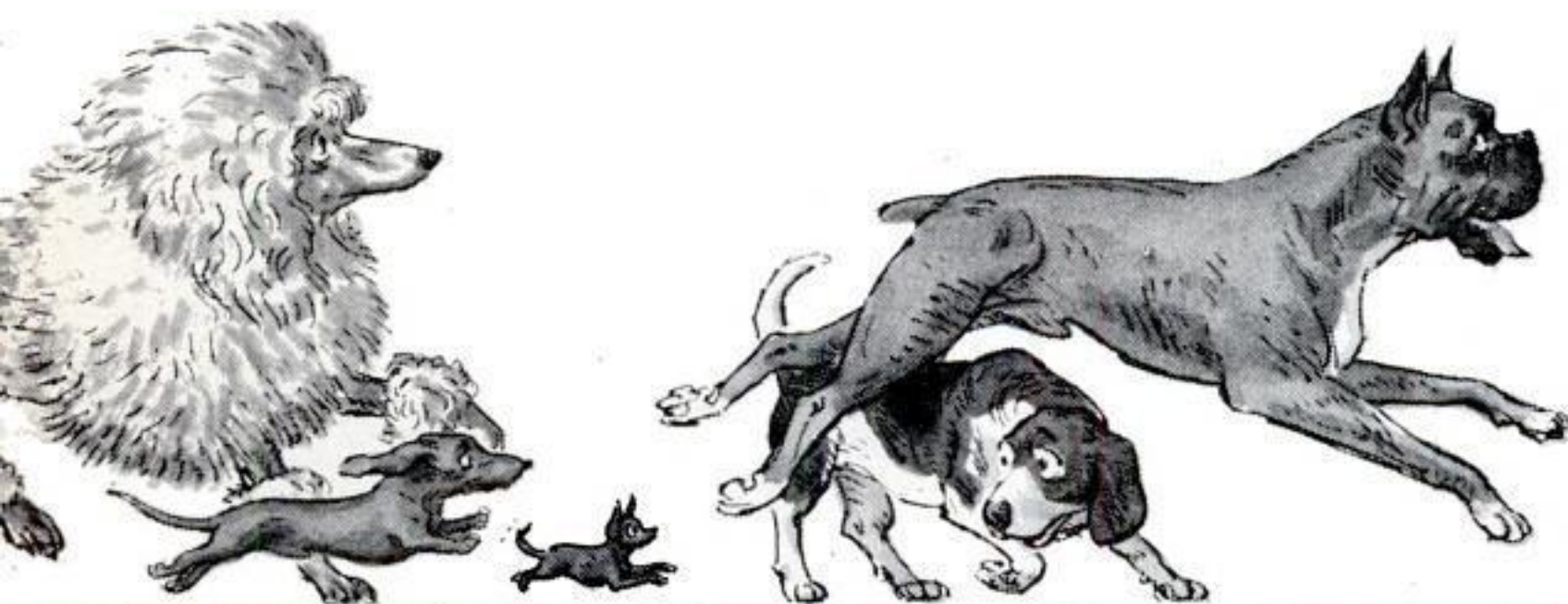
AIREDALE, COCKER SPANIEL, BULLDOG, SCOTTISH TERRIER, DACHSHUND. POPULARITY LED TO REPUTATION AS BAD ACTOR, TURNED MAN AGAINST THE SHEPHERD



HERE AS AIREDALE DROPS FROM SIGHT. A GROWING DEMAND EXAGGERATES THE BOSTON TERRIER'S NEAT LINES AND THE BREED'S HIPS BECOME SLIMMER



ARRIVES IN TOP COMPANY AND COLLIE COMES UP CLOSE TO THE LEADERS. THE COCKER PAYS FOR ITS POPULARITY WITH A SET OF HUMANLIKE NEUROSES



DACHSHUND, POODLE—ARE CLOSING IN ON THE BEAGLE AND ON THE BOXER, A HARD-FIGHTING DOG WHICH IS STEADILY DEGENERATING INTO AN INDOOR PET

from 50,000 dogs during 1925 to approximately half a million last year. In the same period the general

dog population in the U.S. has grown four times as rapidly as the human population. Today about

18 million American families own an estimated 25 million dogs, most of them of indefinite ancestry.

CONTINUED



COLLIE'S NOSE, WHICH HE ONCE KEPT TO THE GRINDSTONE AS A WORKING DOG, IS STRETCHED OUT FOR SHOW



LOW RESISTANCE TO COMMON ILLS BRINGS MISERIES TO OVERBRED DOGS LIKE BLOODHOUND

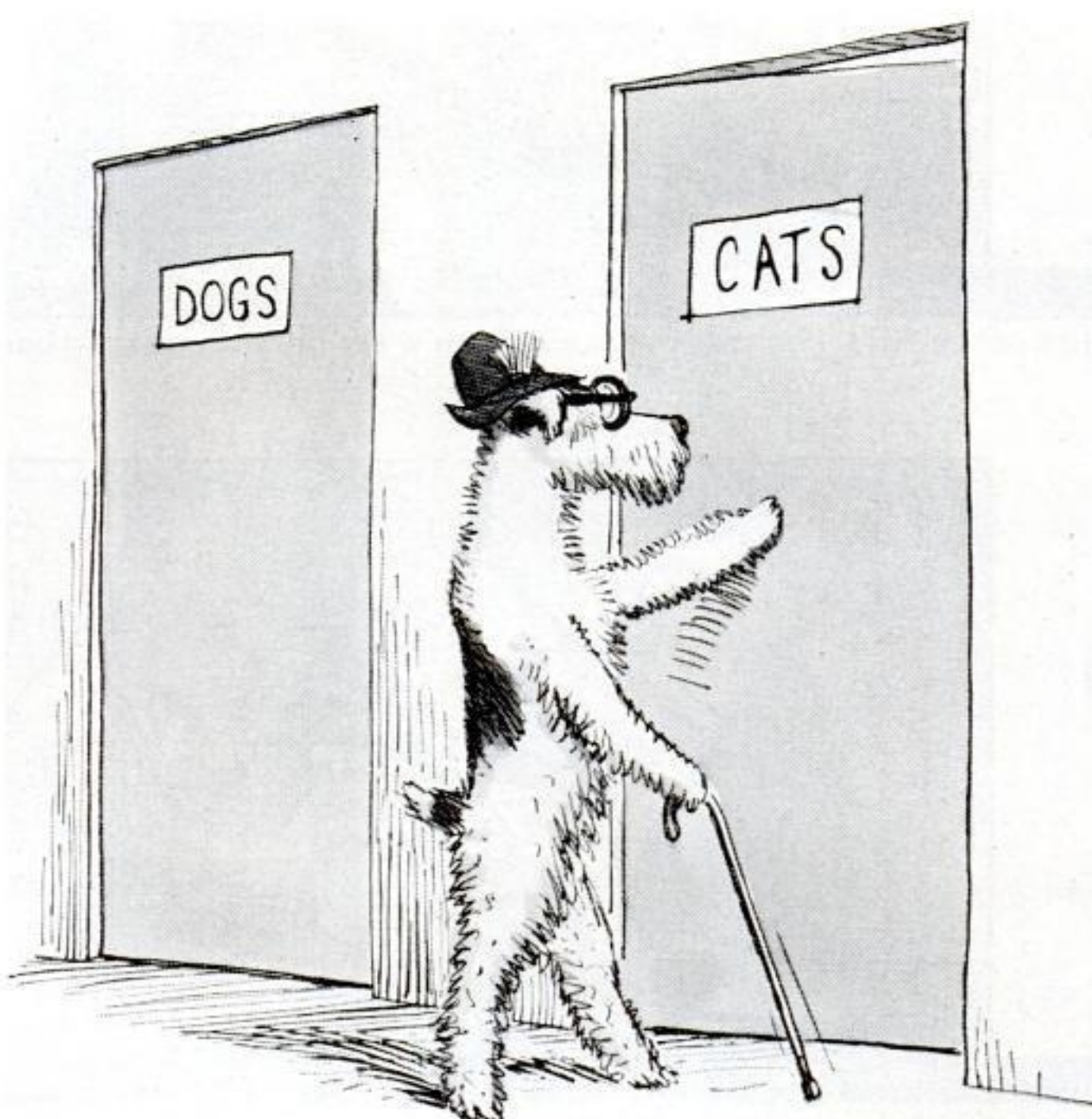


WEAK HINDQUARTERS AFFLICT THE GREAT DANE, A MUSCULAR FIGHTER BEFORE HE BECAME A POPULAR PET

THE PRICE OF BEAUTY

In trying to emphasize attractive features for show purposes, breeders have exaggerated them out of all sense. The collie, a rugged sheep dog in its native Scotland, has become over-refined and long-nosed to impress judges. The Irish setter, a keen bird dog when well bred, has developed a long silky coat that serves brilliantly on the show bench but can be a hairy trap in the field. The cocker spaniel has outgrown its instincts as a gun dog, while bloodhounds bred for the bench often produce such long, dangling ears and dull noses they have trouble trailing anything.

Conscientious breeders, troubled by the dogs' alarming degeneration, are trying to curb certain exaggerated characteristics. Some show judges are setting more rigid and normal bench standards and are penalizing long-haired cockers and great Danes who can barely stand on their own hind legs. But even with these helpful efforts, dogs will still be at the mercy of mass merchandisers who put mark-down prices on the out-of-fashion breeds while stocking up heavily on new favorites (*opposite page*).



POOR EYESIGHT OFTEN HANDICAPS FOX TERRIERS AND OTHER BREEDS AFTER INDISCRIMINATE BREEDING



A LUXURIOUS COAT IS MORE IMPORTANT IN AN IRISH SETTER TODAY THAN ABILITY TO POINT BIRDS IN THE FIELD



BARGAIN BOXERS, most recent victims in the popularity race, huddle in pen near a pet shop window which advertises credit terms for cats, dogs, monkeys.

Pure-bred boxer pups cost \$75 here. Cocker spaniels, slumping fast, are \$39.98. Store attendant says, "We'll stock up on whatever breed wins at Westminster."

From cowpunchers to steelpunch

— a GM yarn from deep in the

TEXAS TALK—John Vernon, Bill Leath (l.) and Olin Cribbs (r.) with John's champion quarter horse, Big Red. John is President of SISCO Steel, a GM supplier. Bill and Olin boss firm's truck fleet and sheet metal departments.



ers

heart of Texas



Ask these three Texans to pick the most exciting time of their lives and it'll be a tossup between the time their quarter horse won his first race—and the time their company got its first General Motors contract.

But ask 'em what's meant the most to them in the long run and it'll be the GM contract, going away.

For as John Vernon—President of SISCO—the Southern Industrial Steel Company in Arlington, Texas—will tell you, it was that first GM contract that started his company growing Texas style.

Rounding Up New Business

SISCO tied in with GM when the Buick-Oldsmobile-Pontiac Assembly Division broke ground for its Arlington plant about five years ago. B-O-P needed a lot of custom steelwork—wanted to buy locally—asked SISCO to bid. SISCO did—and got a big contract.

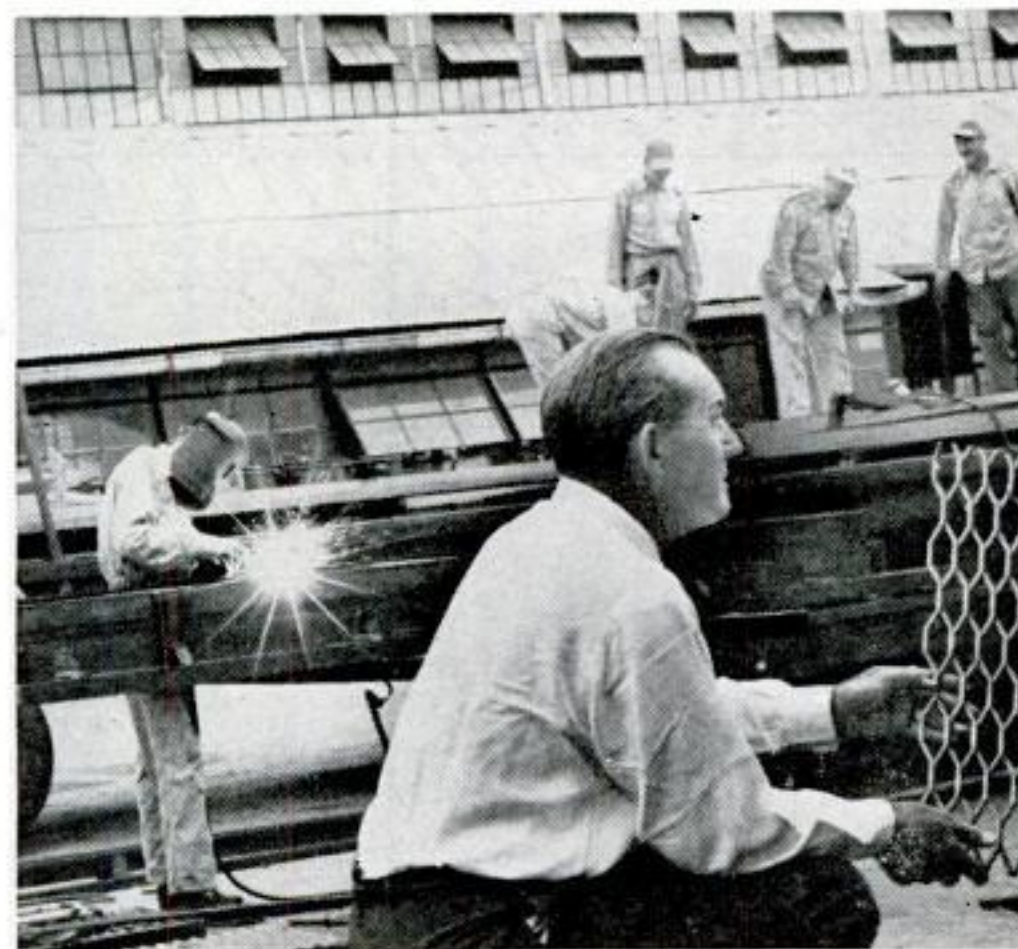
But, as things turned out, that was only the beginning.

Riding High, Wide and Handsome

FOR SISCO has been supplying B-O-P in a big way ever since, has grown about 50% in the past five years, opened up a new plant in Houston with 32 employees—taken on about 60 extra hands in Arlington.

And most of those new hands are ex-cowpokes who'd never worked in a factory before. But John Vernon and his side-kicks have turned 'em into some of the slickest steelworkers you'll find in Texas.

This is a Texas yarn but it's no tall tale. Like many other folks and firms in every state, SISCO and its people have shared in General Motors' success by filling General Motors' needs with competitively priced quality products delivered on time. Probably your friends, your town, or your area are also sharing in this success.



TEXAS STEELPUNCHER—SISCO President John Vernon with sample of his firm's custom-made steelwork. Texas company specializes in such steel, does big annual business with GM.



STEELMAN AT PLAY—Bob Vernon, who heads SISCO's Houston plant with his brother George (l. on fence), bulldogging calf in his dad's corral. Bob won his college letter and a chestful of trophies for roping and tying.



SISCO KIDS—Sales Engineer Dolan Maner and his wife Dot have two future football stars in sons Corky and Doug. Their new home is typical of homes bought by SISCO employees whose pay comes partly from business done by SISCO with General Motors.



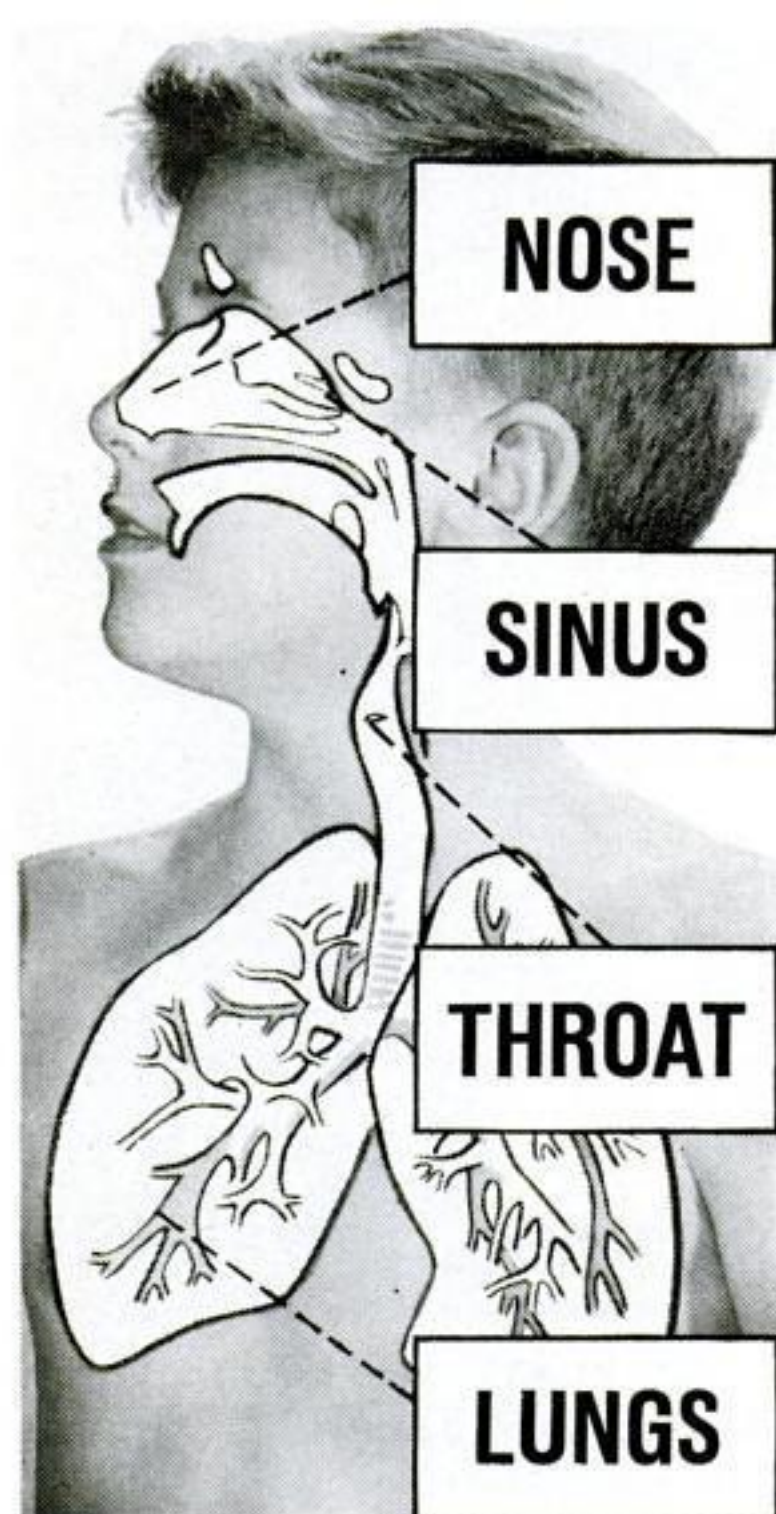
The Importance of Small Business to General Motors

Almost 50¢ of every GM sales dollar goes to outside suppliers. The various Divisions of General Motors deal with a total of 26,000 companies, supplying goods or services. More than 22,500 of these companies have less than 500 employees, and 16,000 employ fewer than 100.

GENERAL MOTORS—*Good people to work for—Good people to deal with*

VIRUS COLD OR ASIATIC FLU?

New Instant-Acting Chest Rub Speeds Relief Through



- CREATES MORE MEDICATED VAPORS, FASTER
- ACTION PENETRATES FASTER AND DEEPER
- BRINGS UP TO 6 TIMES MORE CIRCULATION OVER THE AFFECTED AREAS

Now, from Anahist research comes this new wonder formula for chest misery accompanying virus colds or Asiatic flu. New SUPER ANAHIST INSTANT-ACTING CHEST RUB speeds more medicated vapors faster through nose, sinus, throat, lungs . . . while its deeper penetration breaks up congestion . . . and increased blood circulation flushes away stagnant cold "poisons." Get this new greaseless, stainless cream, today. © 1957, ANAHIST CO., INC.

**SUPER[®]
ANAHIST**
Instant Acting
**CHEST
RUB**

A Remarkable Medical Development from
Anahist Research Laboratories

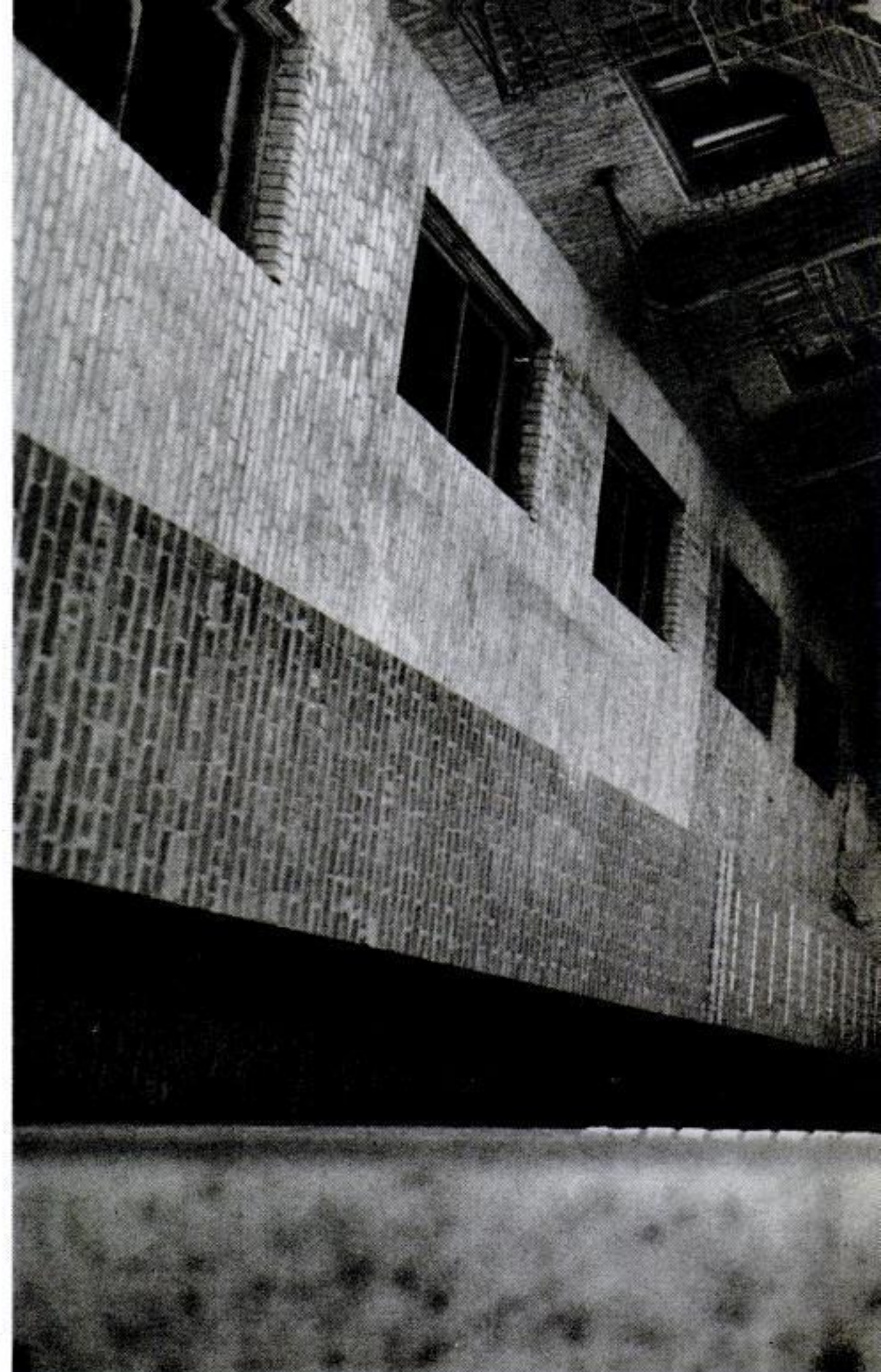


EDUCATION



TEACHER WHO DIED, George Goldfarb, was New York teacher 33 of his 55 years, four as a principal.

PLACE OF DEATH, from parapet where Goldfarb fell, shows impact point where janitor spread sand. →



SCHOOL PROBLEM—AND A SUICIDE

Violence in Brooklyn brings on a principal's death and a bitter dispute



POLICEMAN ON DUTY, Patrolman Percival Niles, discusses order in halls with Mrs. Dorothy Nekrutman, PTA receptionist.

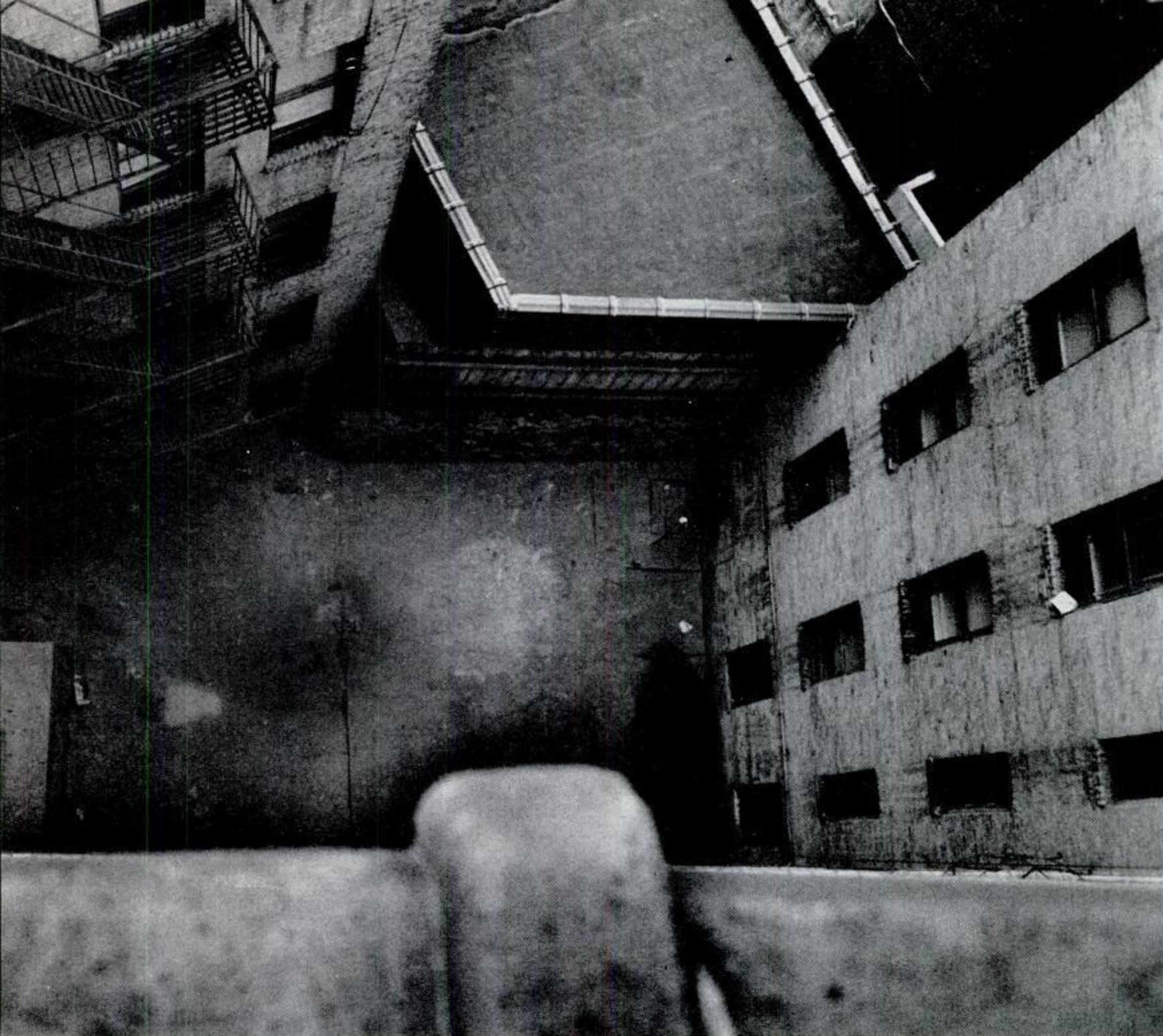
The shocking suicide of a schoolmaster last week dramatized New York's concern at youthful violence in its streets and schools. The situation had grown so serious that recently a grand jury was empaneled to investigate the schools. Ironically it all came to a head over a school with a relatively good reputation.

In the basement of John Marshall Junior High in Brooklyn a 13-year-old girl was raped, and the principal, George Goldfarb, was called before the grand jury. His school is in a so-called "transitional" neighborhood now 50% Negro, 40% white and 10% Puerto Rican. Until this assault it had been free of trouble. But on the day he went before the jury two more incidents of violence occurred there.

Returning from the grand jury, Goldfarb told superiors in the Board of Education that a juror had threatened him with indictment. Later he set off, supposedly for another session with the jury. Soon afterward his body was found in the court of his apartment house.

The suicide left the jury and the Board of Education bitterly at odds. The board charged the jury with hounding Goldfarb to death. The jury charged the board with lies and evasions. Meanwhile, as Goldfarb asked just before his death, a policeman was assigned to the school.

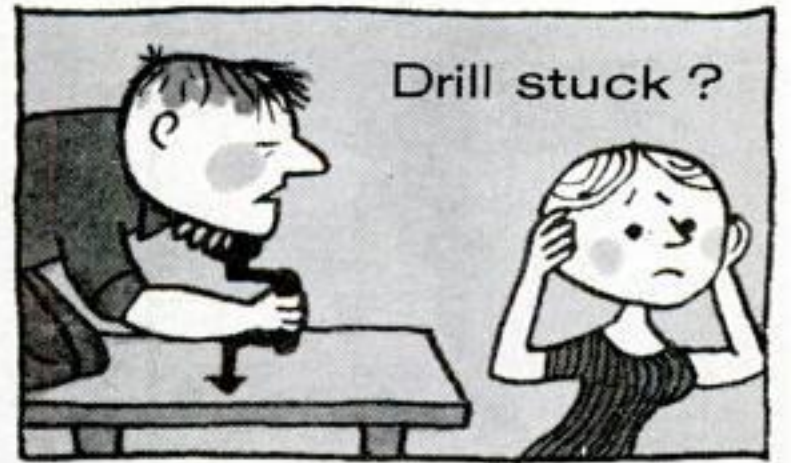
IRONIC HOLIDAY releases John Marshall pupils → for Goldfarb's funeral. Although most pupils were eager to be photographed, one, raising hand, protested to photographer, "You're making us look bad."



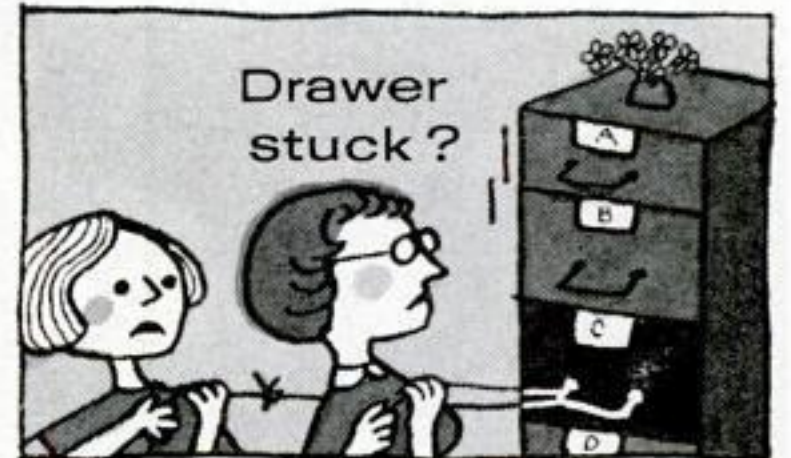
CONTINUED

FIX-IT TIPS

with "3-in-One" oil



Speed it up with "3-in-ONE" oil. Penetrates, lubricates, *prevents rust, too*. Keeps all your tools working smoothly.



Free metal drawers fast with "3-in-ONE" oil. Works into hard-to-get-at places. Lubrication lasts months. Clean—not sticky.



Keep it moving with *clean-working* "3-in-ONE" oil. Doesn't gum up. Perfect for even the most delicate machinery.



Limber it up with "3-in-ONE" on springs, tracks, and rollers. New *Oil-Spray* can makes it easy to oil hard-to-reach places.

"3-IN-ONE"

is the *one* oil that does all three:

1. PENETRATES
2. LUBRICATES
3. PREVENTS RUST



New handy spray can for hard-to-get-at places

one good-tasting
Lavoris rinse

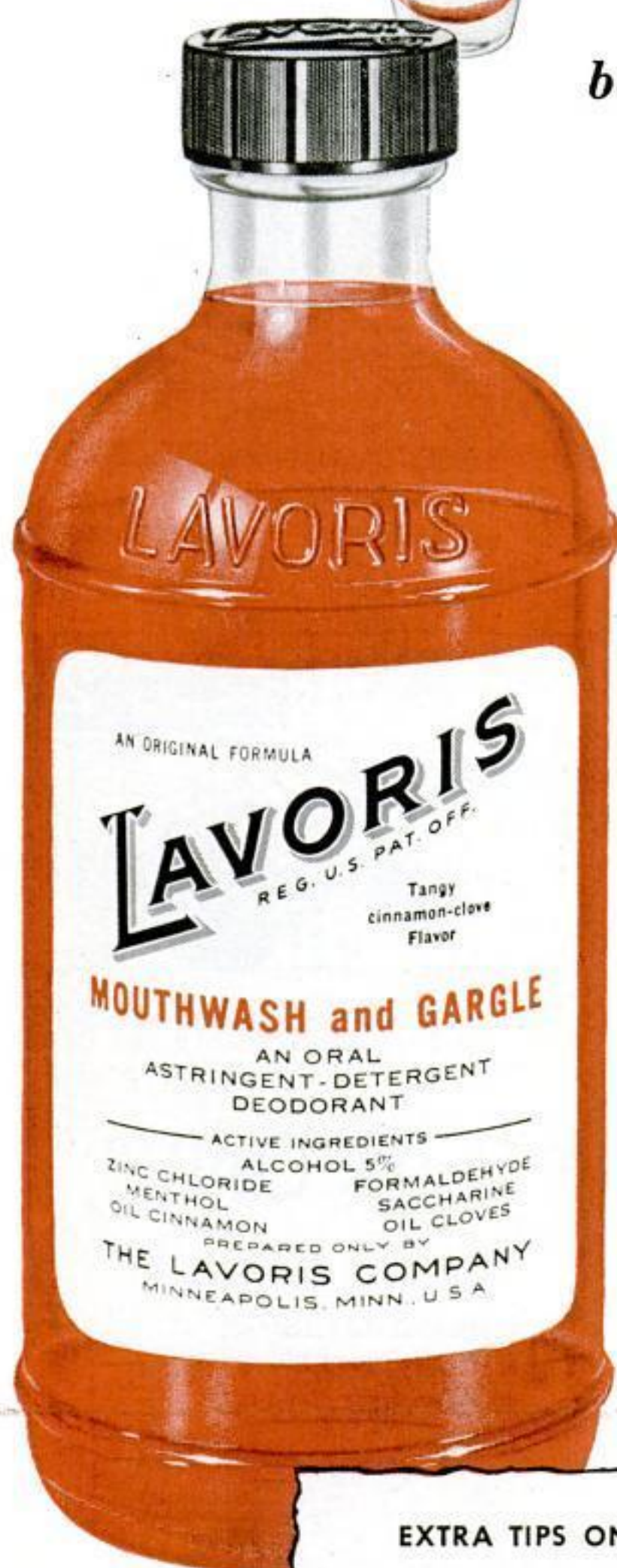


...and your mouth
feels clean



because
it is clean

Lavoris Clean!



Lavoris is proof that a mouthwash can taste good and really do good too. Its unique deep-down cleansing action is the most effective way to rid your mouth of germ-laden film and odor-causing food particles. And it tastes so good your whole family will want to use it.

EXTRA TIPS ON FAMILY MOUTH CARE

SORE THROAT—A Lavoris gargle will clear away throat mucus and soothe irritated tissues.

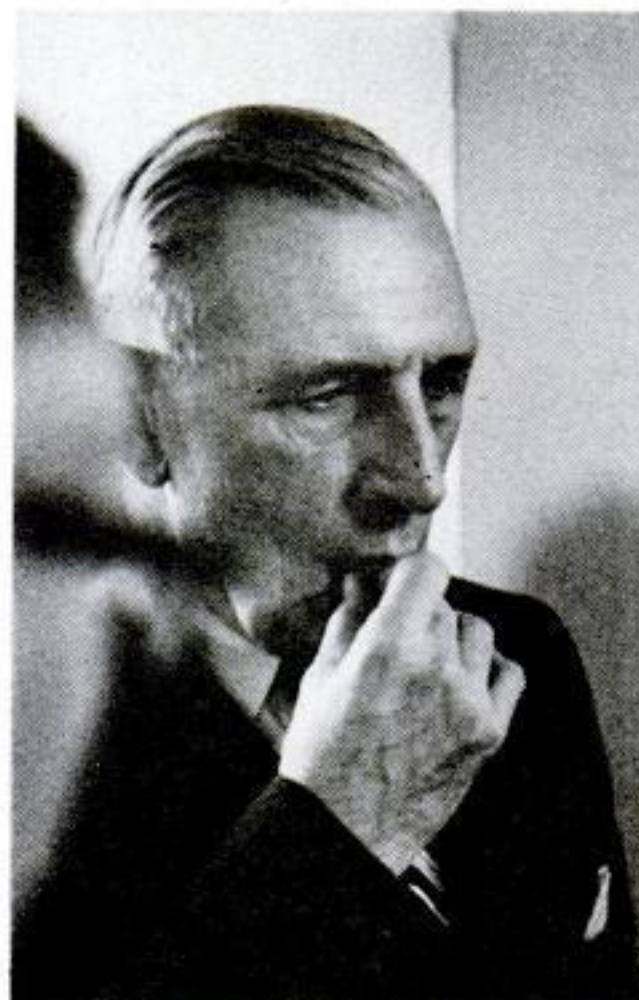
OFFENSIVE BREATH—A Lavoris rinse will quickly remove the mucus coating and food residue which often cause bad breath.

DENTURES—Regular use of Lavoris helps keep mouth tissues clean and comfortable... the breath pure and fresh.

GUMS—Lavoris' astringent action tones gums... helps keep them firm and resistant.

Take a tip from your dentist—use Lavoris, the sparkling red mouthwash that tastes good... does good!

School Problem CONTINUED



AUTHORITIES AT ODDS over schools are Superintendent William Jansen (left) and Judge Samuel Leibowitz who empaneled grand jury. Jansen complained judge called him "arrogant, pompous, swell-headed" and "bastard." Judge denied epithets but said the schools were a "horrible, miserable mess."



STUDENTS AT FUNERAL, five of the 20 John Marshall pupils who attended service, stand outside Brooklyn chapel. Adult with them dabs at her tears.

Whenever you feel that sudden urge
for just a bite of candy...



Working in the garden...




Taking a "break"...or just watching television

Have a Marsette! When your instinct says candy, it's you wanting energy. Have a Marsette! Just a bite of the creamiest caramel filling, cunningly boxed into thick, perfect chocolate. So dripping rich with chocolate and caramel that just one may well be enough! Only 10¢ a roll.

Marsettes®

New bite-size caramel chocolates

made in Candyland by 



© 1958 MARS, INC., CHICAGO 35, ILL

WHENEVER THIRST GETS IN THE GAME, HAVE THE

real thirst-quencher!

Copyright 1958 by The Seven Up Company



Nothing does it like Seven-Up

Thirst should be against the rules. And with 7-Up—it is! A bottle of sparkling 7-Up gets rid of thirst like nothing else can. Quickly—so thirst won't interfere with your fun. Completely—so that when you finish the bottle, your throat feels cool, your mouth feels fresh. You're ready to roll!

"FRESH UP" WITH SEVEN-UP





MRS. ROOSEVELT AS COACH, seated beside husband's wheel chair at Hyde Park, helps Actor Ralph Bellamy imitate the speech of F.D.R. Showing her list

of words used in play, Bellamy asks how President pronounced "economic." "detail," "Mama," "Eleanor." Mary Fickett (right) portrays Eleanor on stage.

A TIME OF ORDEAL FOR YOUNG F.D.R.

Eleanor Roosevelt helps actors prepare new play

A dozen years after his death Franklin D. Roosevelt seems to live again in a Broadway play. *Sunrise at Campobello* covers a brief and crucial period of his career, from 1921 when he was stricken by polio at his summer lodge, Campobello, through convalescence until he had the grit to re-enter public life in 1924.

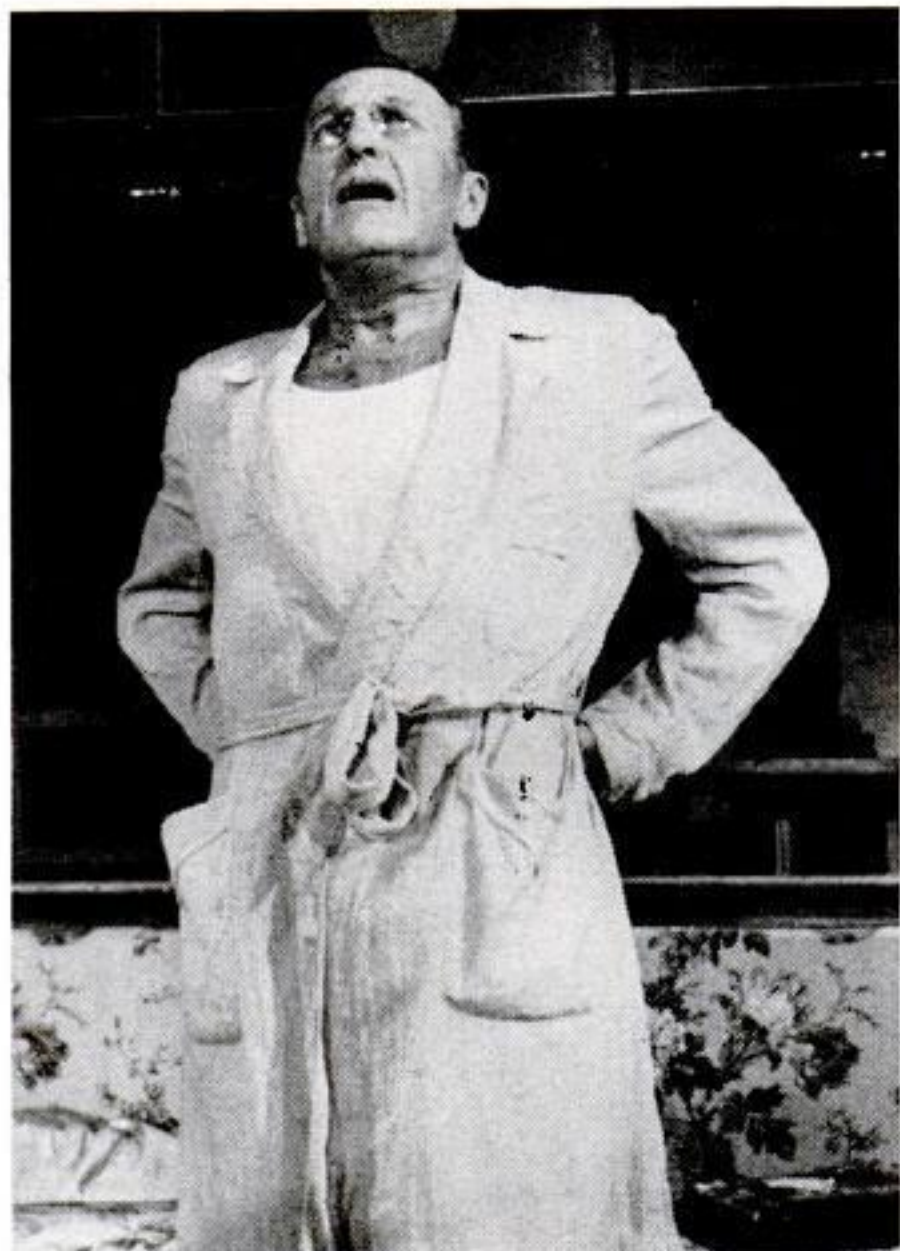
Eleanor Roosevelt last summer read and approved the play, which was written by Dore

Schary, former head of MGM film production. She did her best to help it along, showing her husband's memorabilia to the actors, telling them about his mannerisms. Thanks to such careful preparation and a remarkably true-to-life portrayal by Ralph Bellamy as F.D.R. (see cover), *Sunrise* is an intimate family portrait, an engrossing drama—and a heartening tribute to the indomitability of the human spirit.

RALPH BELLAMY IN FIRST SCENE PORTRAYS A RUGGEDLY HEALTHY F.D.R. →



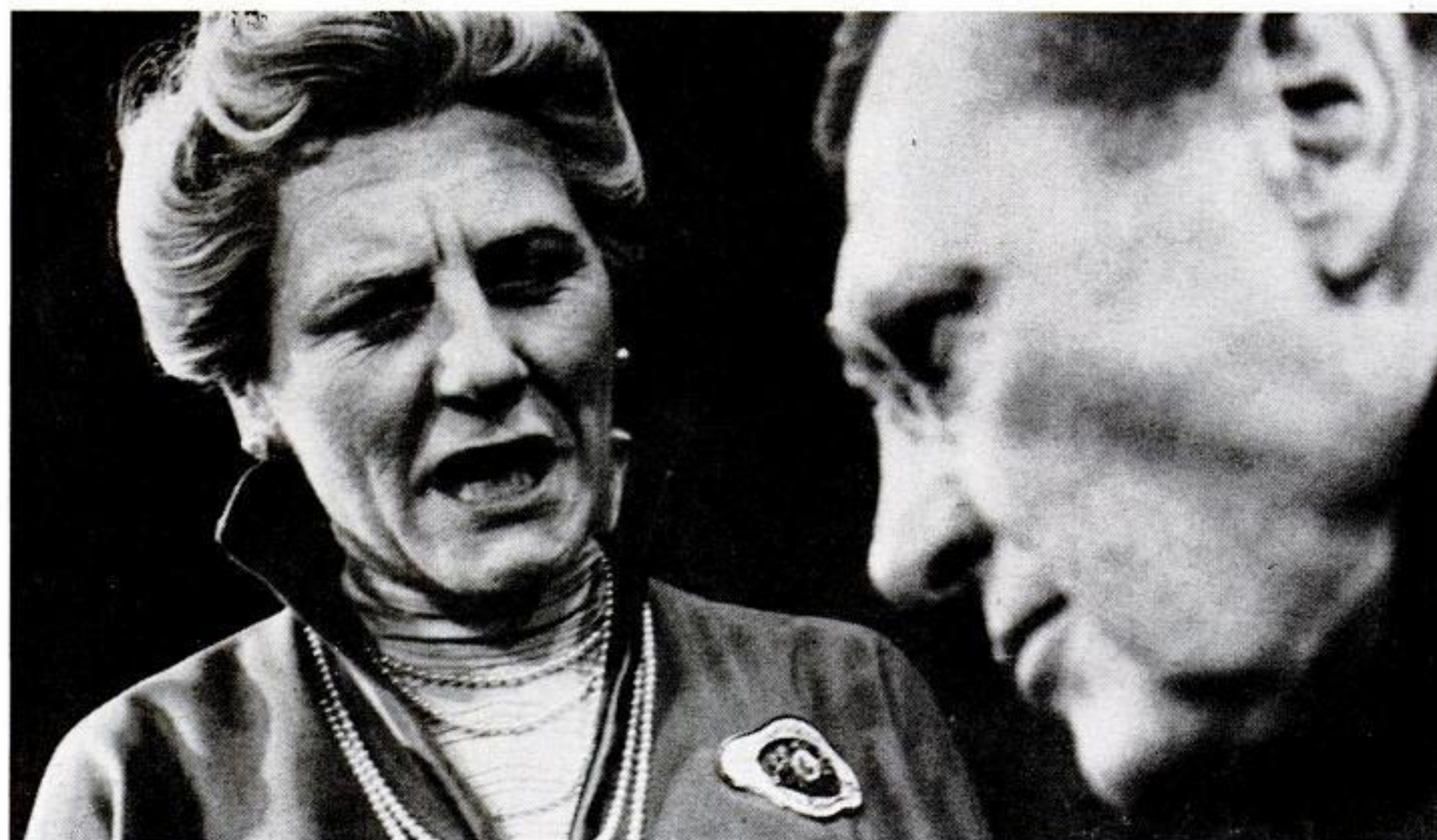
BELLAMY PLAYS ROLE, SEES RELIC



STORY OF PLAY begins with pictures in this column. F.D.R. thinks first polio pain is lumbago.



ON A STRETCHER, paralyzed but jaunty, F.D.R. leaves Campobello under Eleanor's worried eye.



REBUKING HIS MOTHER Sara (Anne Seymour), who tells him he should give up hopes of a

strenuous career and accept a leisurely life at their Hyde Park home, F.D.R. says, "No more talking."



WRESTLING WITH SONS, Elliott and Franklin Jr., F.D.R. exercises to help regain his strength.

RELIC OF F.D.R., his braces now at Hyde Park, → are shown by Mrs. Roosevelt to Bellamy and Fickett.





... AND ENACTS A VICTORY



DRAGGING HIMSELF ALONG, in his first effort to move without wheel chair, F.D.R. in the play hides pain by quipping, "This is the Roosevelt slide."



"TAKE CARE, KID," says Al Smith (Alan Bunce), after Roosevelt has agreed to nominate him for governor. Louis Howe (Henry Jones) watches.



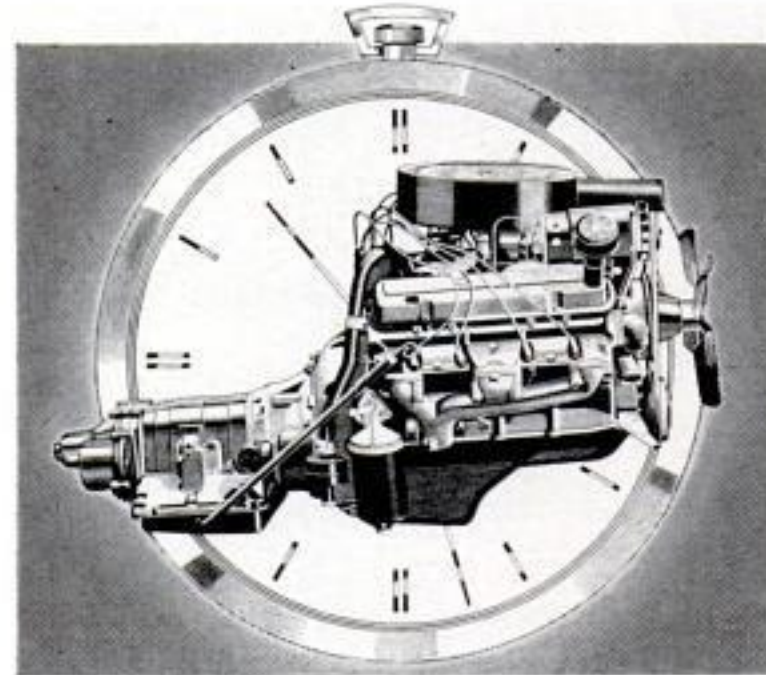
CRUCIAL SELF-VICTORY for F.D.R. is achieved when he first stands without crutches to nominate Smith, and proves he is able to resume career.

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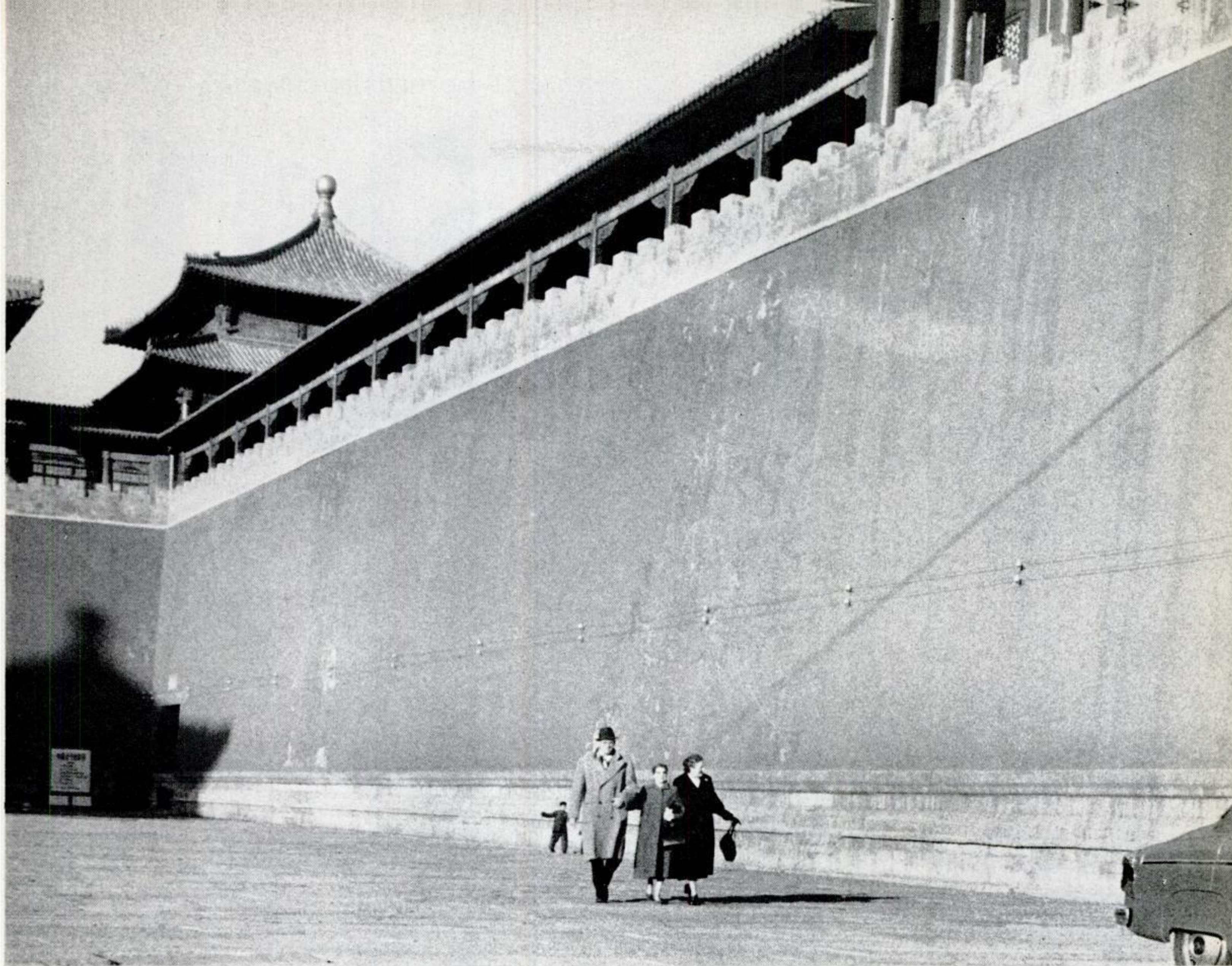


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IN PEKING, WILLIAM DOWNEY, RUTH REDMOND (CENTER) AND MARY DOWNEY WANDER PAST THE IMPOSING WALL THAT RINGS THE ANCIENT FORBIDDEN CITY

POIGNANT TOUR OF CHINA



ENTERING PRISON to see John Downey, Mrs. Downey and William pause at Ts'ao Lan-tzu jail.

U.S. mothers visit sons in prison and see sights

The American sightseers in Red China (*above*) were whiling away the time between the too short hours in which they could attend to the poignant business that had brought them so far. Mrs. Mary Downey with her son William, Mrs. Jessie Fecteau and Mrs. Ruth Redmond were in Red China on Communist invitation to visit their sons (*next page*), who were serving long prison sentences as "spies."

The mothers had brought simple presents with them: family mementos, food, vitamins, warm clothes. They were permitted to pay a number of visits from a half-hour to several hours in length. "We just talked and talked about home," said Mrs. Fecteau.

Treated with great courtesy by the Chinese, the mothers were taken on tours of showcase Red Chinese factories, farms and handicraft shops. They hopefully requested Premier Chou En-lai to free their sons, but he firmly informed them that he would do nothing of the sort. Then, sadly, the mothers turned homeward.



LEAVING PRISON after talking to her son Richard, Jessie Fecteau is followed by a girl interpreter.

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SEEING THE PRISONERS, Mrs. Downey and William pay visit to John (*left*), who is under a life sentence in Peking jail. Mrs. Fecteau (*center*) sits at



BUYING PICTURE POSTCARDS IN PEKING. MRS. DOWNEY. MRS. REDMOND



BUYING FOOD for their sons, Mrs. Downey and Mrs. Fecteau get sausage and fruit. This is a luxury food store, mostly for well-off Communist officials.

AFTER MASS, Downeys and Mrs. Fecteau stand with Chinese priest outside Peking's Pei T'ang Roman Catholic cathedral, still permitted to stay open.

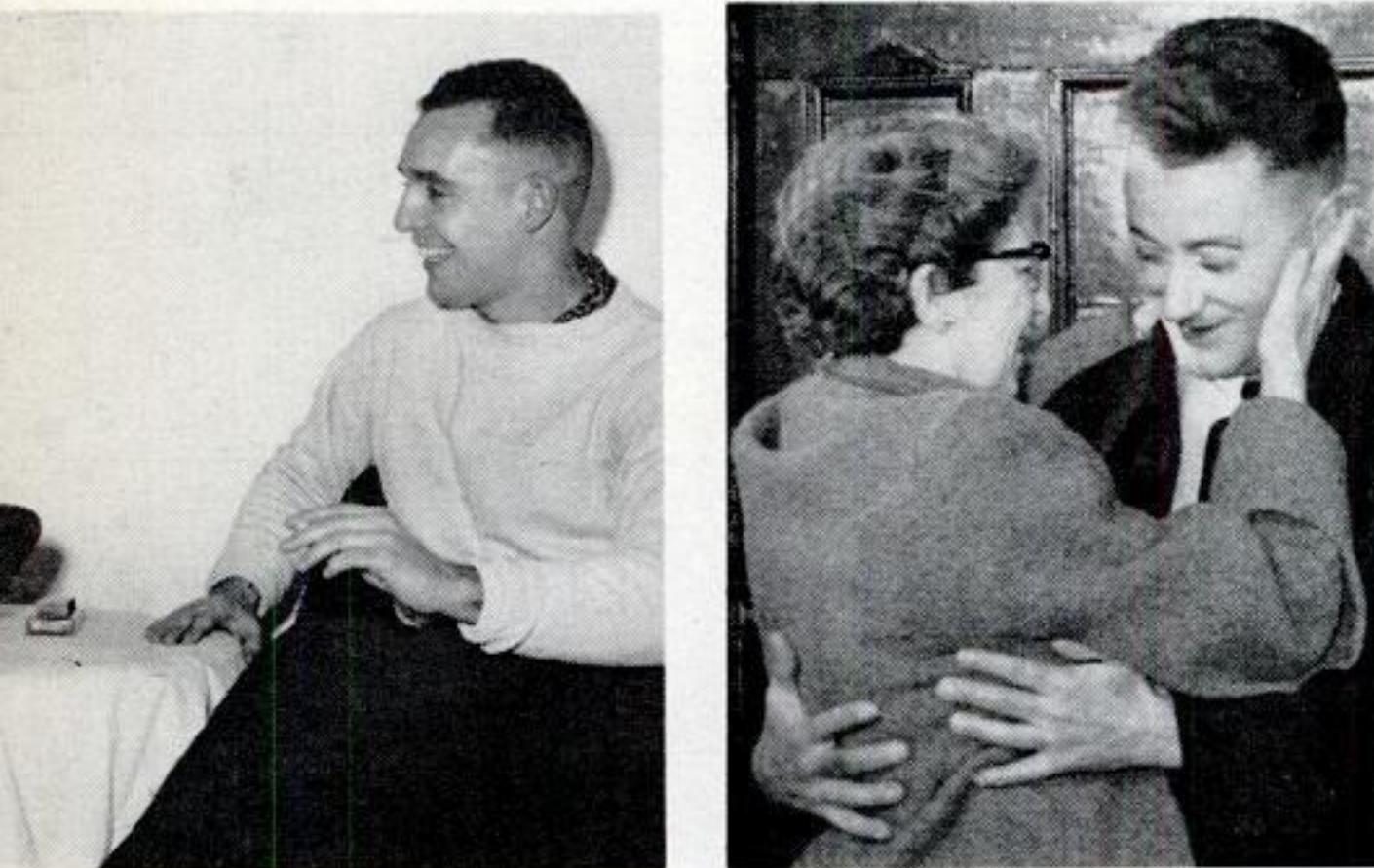


table in same jail with her son Richard, serving 20 years. Mrs. Redmond (right) embraces son Hugh, also under sentence for life, in his Shanghai prison.



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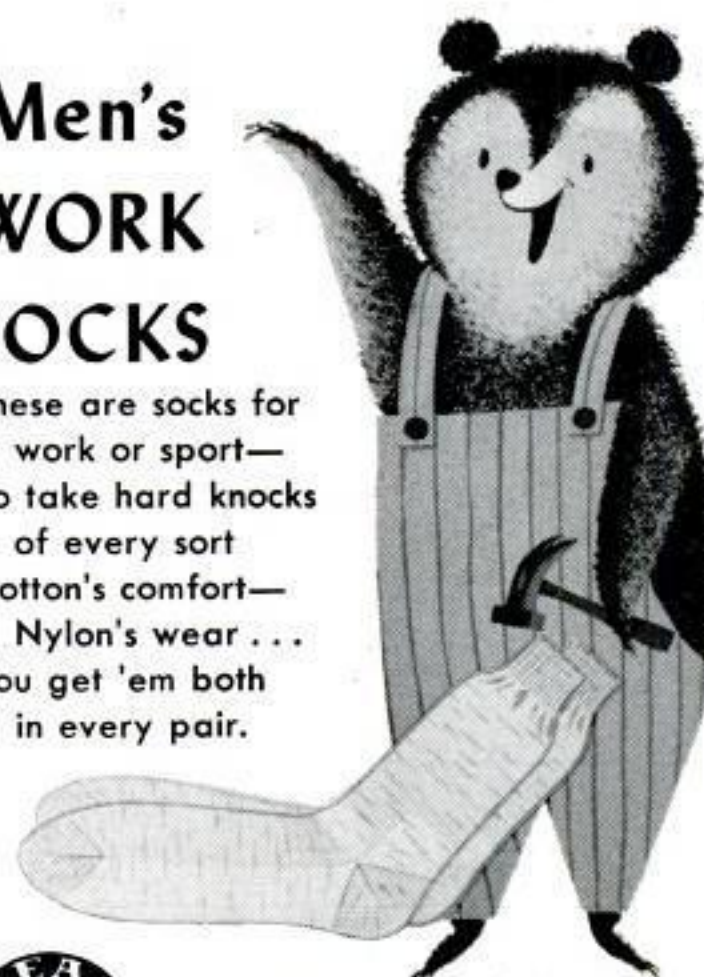
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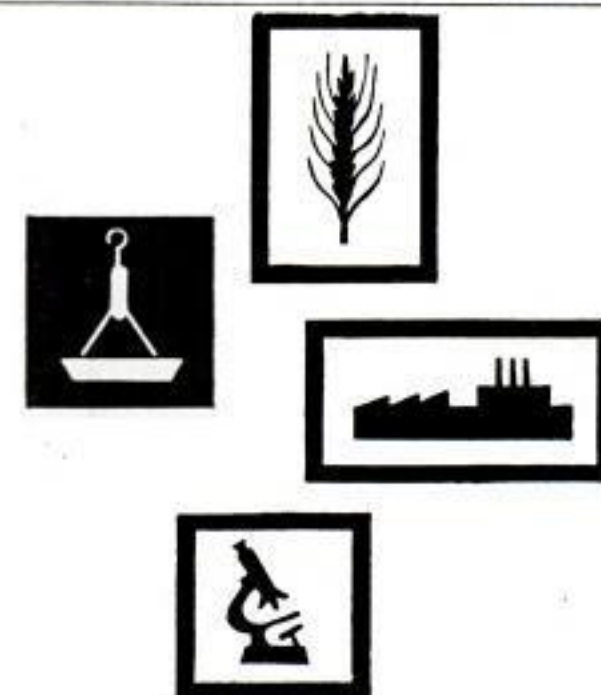
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BUBBLE TROUBLE IN THE CHOIR

When Photographer Bill Blankenburg started taking pictures of six of the girls in the junior choir of a Los Altos, Calif. church, all that he wanted was a nice dignified picture for the cover of a local magazine. He carefully lined up the girls and asked them to sing every time he snapped a picture. While

he was shooting, Blankenburg kept hearing a slight popping to the right. But it wasn't until he developed his pictures in the lab that he found out what it was. In 11 of the 12 pictures that he made, Robin Everett was standing with a big bubblegum bubble sticking out. The 12th picture made the cover.



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